

- b. Note if antenna is pointed in a direction significantly different (> 45 degrees) from bearing to ESB
2. Adjust input attenuator so that signal level is about -50 dBm/6 MHz at WIAD amplifier *output* or adjust to 0 dB if the largest available output signal is less than -50 dBm
 - a. Note difference from attenuator setting between DTx active and DTx inactive
3. Record attenuator setting (in dB)
4. Measure & record total *average* signal power (in dBm/6 MHz)
5. Calculate & record indoor **FIELD STRENGTH** (in dB μ V/m) using portable amplifier system gain, attenuator value, channel-dependent dipole factor, and channel-dependent antenna gain
 - a. Note any difference from between DTx active and DTx inactive
6. Calculate & record **SNR** (in dB) of received signal using the measured signal level, input attenuator value, and portable amplifier's noise floor (anything less than 15 dB can not be received error free)
7. Record and save spectrum plot (20 MHz span, 10 dB/div, TIF)
 - a. Note any significantly larger NTSC or ATSC signals within ± 4.5 channels (i.e. within ± 30 MHz of desired channels center frequency) that could possibly cause interference to the DTx signals
 - b. Record levels of any of these signals that are greater than 20 dB above the desired DTV signal's total average power level
 - c. Record additional spectrum plot (60 MHz span, 10 dB/div, TIF), *if necessary*
8. Record and save RF Watermark data (RPT) for all DTx signals
9. Measure & record DTx-induced multipath
 - a. Document echo amplitude values (in dB) and delay values (in μ secs) from all DTx transmitters
 - b. Note any significant large pre-echo and post-echo amplitudes and delays in the comments
10. Determine & record **SERVICE** for *each* DTV receiver.
 - a. Watch video for 3 minutes
 - b. Count and record # of burst errors or "hits" (acceptable reception defined as ≤ 3 "hits" in 3 minutes)
 - i. Enter total # of burst errors (0 – 18)
 - ii. If partial picture viewable, but very bad (>18 errors), enter 555
 - iii. If absolutely no picture viewable, enter 999
 - c. Record *failure mode* code and enter comments about cause of failure in site comments.
 - i. No failure (code 0)
 - ii. Signal level (code 1)
 - iii. Multipath, natural (code 2)
 - iv. Multipath, DTx-induced (code 3)
 - v. Interference (code 4)
 - vi. Signal level and multipath (code 5)
 - vii. Signal level and interference (code 6)
 - viii. Multipath plus interference (code 7)
 - ix. Other, with specific explanation in comments section (code 8)
 - d. Note reception sensitivity to any personnel movement in vicinity of antenna

11. Increase attenuation to lower signal down to threshold (**TOV**) for *each* DTV receiver, and document attenuator setting (in dB) for *each* DTV receiver, which is the reception **MARGIN** (in dB) relative to the portable amplifier's noise floor.
 - a. Note and record any difference, if any, between DTx active and DTx inactive
 12. Return attenuator to original setting
- iv. Document DTx system for antenna *range of rotation* (ease of consumer adjustment)
1. Set attenuator level, if possible, so that signal level around entire 360 degrees azimuth range falls between -30 dBm and -70 dBm, and record value
 2. Slowly rotate primary *indoor* antenna, recording angular sections (in degrees) where DTV service is present
 - a. Maximum of 6 sectors is considered (practical limitation for time)
 - b. More sectors than this, and adjustment is deemed unacceptable for average consumer (make note in Comments section regarding sectors and total degrees)
 3. At *each* antenna bearing *transition* from good to bad reception and vice versa:
 - a. Record antenna bearing (in degrees, with respect to true North)
 - b. Record total *average* signal power (dBm/6 MHz)
 - c. Calculate & record *indoor FIELD STRENGTH* (dB μ V/m) using portable amplifier system gain, attenuator value, channel-dependent dipole factor, and channel-dependent antenna gain
 - d. Calculate & record **SNR** (dB) using the measured signal level, input attenuator value, and truck's noise floor (anything less than 15 dB can not be received error free)
 - e. Record and save spectrum plot (20 MHz span, 10 dB/div, TIF)
 - f. Record and save RF Watermark data (RPT) for all DTx signals
 - g. Measure & record ESB *naturally-occurring* and DTS-induced echo amplitudes & delays
 - i. Document echo amplitude values (in dB) & delay values (in μ secs) from all DTx transmitters
 - ii. Note any significant large pre-echo and post-echo amplitudes and delays in the comments
 - h. Record *failure mode* code and enter comments about cause of failure in site comments section for each failed sector
 - i. No failure (code 0)
 - ii. Signal level (code 1)
 - iii. Multipath, natural (code 2)
 - iv. Multipath, DTx-induced (code 3)
 - v. Interference (code 4)
 - vi. Signal level and multipath (code 5)
 - vii. Signal level and interference (code 6)
 - viii. Multipath plus interference (code 7)
 - ix. Other, with specific explanation in comments section (code 8)
 4. After rotating through entire 360 degrees, record *total* degrees of reception (in degrees)
 - a. Note any difference in range of rotation between DTx active and DTx inactive
 5. If very poor or no DTV reception is available for the range of rotation test, then repeat with Silver Sensor directional UHF antenna

- c. Repeat CH 33 test with secondary directional antennas (*passive* Silver Sensor directional UHF antenna):
 - d. Determine if *smart* UHF antenna system can provide DTV service
- 3) CH 12 Measurements
- a. Repeat field test procedure used for CH 33,
 - b. Except use a active Sharpshooter high-VHF antenna as the secondary antenna
 - c. There is no smart antenna available for CH 12
- 4) CH 65 Measurements
- a. Repeat field test procedure used for CH 33
 - b. Except use Silver Sensor UHF antenna as the secondary antenna
 - c. Except for ESB measurements (no ESB CH 65 transmitter, which means there is no DTx OFF test)
- 5) Record any final comments that describe conditions at the test site
- 6) Backup all electronic files created at test site *before* departing
- a. Data Spreadsheet (XLS)
 - b. Spectrum analyzer files (TIF)
 - c. RF Watermark files (RPT)
 - d. Digital Pictures (JPG)
- 7) Prepare to leave test site
- a. Pack up all equipment
 - b. Carry equipment to truck and secure in truck
- 8) Leave test site

Appendix 6 *OUTDOOR RAW DATA SUMMARY TABLES*

Table A6-1 Summary of 30° AGL raw outdoor data

Test Site Name & Date					DTx OFF								DTx ON								
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
A1	1/15/08	33	G1	078	61.6	32.5	0	0	8	8	319	104	87.8	58.7	C	0	0	42	42	360	360
A1	1/15/08	12	G1	078	44.1	24.0	0	555	3	0	52	0	80.7	60.6	C	0	0	44	44	360	360
A1	1/15/08	65	G1	078									78.3	45.5	C	0	0	28	28	360	360
A2	1/16/08	33	G1	001	83.2	54.5	0	0	47	48	360	360	82.2	53.5	E	0	0	36	37	360	360
A2	1/16/08	12	G1	001	69.5	50.5	0	0	32	32	360	360	73.3	54.3	E	0	0	32	31	360	360
A2	1/16/08	65	G1	001									69.4	36.9	A	555	555	0	0	189	183
A3	1/17/08	33	G1	017	63.4	34.9	0	0	12	12	215	86	81.1	52.6	A	0	0	34	34	360	360
A3	1/17/08	12	G1	017	50.7	32.0	0	0	13	14	228	117	68.5	49.8	A	0	0	32	32	230	110
A3	1/17/08	65	G1	017									76.7	44.3	A	0	0	25	25	360	74
A4	1/18/08	33	G1	070	74.6	45.8	0	0	29	28	360	360	72.0	43.2	E	0	0	24	25	71	182
A4	1/18/08	12	G1	070	54.9	35.9	0	0	14	14	181	150	62.2	43.2	C	0	0	22	22	330	107
A4	1/18/08	65	G1	070									74.9	42.4	C	0	0	24	25	238	61
A5	1/21/08	33	G1	023	68.6	40.2	0	0	19	19	360	360	79.0	50.6	A	0	0	33	34	360	360
A5	1/21/08	12	G1	023	55.7	42.0	0	0	18	19	233	176	65.3	51.6	A	0	0	28	29	322	254
A5	1/21/08	65	G1	023									69.7	37.8	A	0	0	20	21	360	192
A6	1/22/08	33	G1	043	73.6	45.2	0	0	27	28	61	281	73.7	45.3	E	0	0	25	25	290	360
A6	1/22/08	12	G1	043	60.2	41.3	0	0	24	25	105	114	61.7	42.8	E	0	0	18	18	360	360
A6	1/22/08	65	G1	043									67.6	36.4	A	0	0	13	14	360	360
A7 *	1/23/08	33	DTX	012	74.5	45.6	0	0	28	28	349	351	73.6	44.7	E	0	0	27	28	296	314
A7 *	1/23/08	12	DTX	012	56.8	37.6	0	0	20	21	161	157	57.7	38.5	E	0	0	19	20	192	137
A7 *	1/23/08	65	DTX	012									57.1	24.9		999	999	0	0	0	0
A8	1/24/08	33	G1	050	76.2	47.7	0	0	30	31	303	293	81.1	52.6	A	0	0	33	33	312	133
A8	1/24/08	12	G1	050	56.2	37.2	0	0	19	20	274	268	67.2	48.2	A	0	0	30	31	333	278
A8	1/24/08	65	G1	050									79.1	47.6	A	0	0	29	30	293	274
A9	1/25/08	33	G1	063	60.0	31.2	0	0	13	13	87	128	72.4	43.6	A	0	0	25	25	189	73
A9	1/25/08	12	G1	063	58.3	39.4	0	0	21	21	247	205	61.7	42.8	A	0	0	22	11	122	43
A9	1/25/08	65	G1	063									68.6	36.8	A	0	0	18	14	324	237
A10	1/28/08	33	G1	009	64.4	35.8	0	555	14	0	107	27	70.5	41.9	E	0	999	11	0	185	0
A10	1/28/08	12	G1	009	43.2	24.2	999	999	0	0	0	0	67.6	48.6	A	0	555	28	21	360	48
A10	1/28/08	65	G1	009									70.7	38.4	A	555	999	0	0	0	0
A11	1/29/08	33	G1	020	80.0	51.1	0	555	33	0	292	67	83.9	55.0	A	0	0	33	34	360	360
A11	1/29/08	12	G1	020	56.9	38.0	0	0	19	20	334	262	77.0	58.1	A	0	0	42	41	360	360
A11	1/29/08	65	G1	020									80.8	48.4	A	0	0	30	32	360	58
A12	1/30/08	33	G1	066	80.0	51.0	0	0	35	35	360	360	79.0	50.0	E	0	0	26	26	88	113
A12	1/30/08	12	G1	066	51.4	32.3	0	0	16	16	157	140	62.8	43.7	A	0	0	26	26	360	262
A12	1/30/08	65	G1	066									72.0	39.1	D	1	1	16	16	75	50
A13	1/31/08	33	G1	049	77.4	48.6	0	0	30	31	360	214	87.1	58.3	A	0	0	41	42	360	360
A13	1/31/08	12	G1	049	63.9	44.9	0	0	27	27	241	275	74.1	55.1	A	0	0	39	39	360	360
A13	1/31/08	65	G1	049									81.3	48.9	A	0	0	33	33	360	360
A14	2/1/08	33	G1	069	79.3	50.6	0	0	33	34	237	154	79.1	50.4	E	0	0	32	33	109	219
A14	2/1/08	12	G1	069									71.7	38.9	C	3	999	13	0	260	211
A14	2/1/08	65	G1	069																	

* denotes test site “*outside* the box”

Table A6-1 (cont) Summary of 30' AGL raw outdoor data

Test Site Name & Date					DTx OFF								DTx ON								
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
A15	2/4/08	33	G1	003	88.8	60.0	0	0	42	42	360	323	88.4	59.6	E	0	0	42	42	360	171
A15	2/4/08	12	G1	003	78.4	59.2	0	0	42	42	360	360	78.5	59.3	E	0	0	40	40	360	360
A15	2/4/08	65	G1	003									73.7	41.0	A	0	0	20	20	360	293
A16	2/5/08	33	G1	014	87.0	58.8	0	0	41	42	360	360	86.8	58.6	E	0	0	40	41	360	360
A16	2/5/08	12	G1	014	72.8	56.5	0	0	36	37	322	327	72.6	56.3	E	0	0	36	36	360	360
A16	2/5/08	65	G1	014									77.6	45.3	B	0	0	27	27	360	199
A17	2/6/08	33	G1	011	75.0	46.6	0	0	28	31	360	360	82.6	54.2	A	0	0	36	37	360	360
A17	2/6/08	12	G1	011	69.8	51.0	0	0	34	34	360	360	75.2	56.4	A	0	0	38	38	360	360
A17	2/6/08	65	G1	011									80.9	49.0	A	0	0	31	32	360	360
A18	2/7/08	33	G1	015	79.1	50.6	0	0	33	34	360	360	79.4	50.9	E	0	0	33	34	360	360
A18	2/7/08	12	G1	015	74.1	55.1	0	0	38	38	360	360	73.4	54.4	E	0	0	37	37	360	360
A18	2/7/08	65	G1	015									63.4	31.1	B	0	0	11	13	215	50
A19	2/8/08	33	G1	047	89.0	60.5	0	0	43	43	360	360	89.4	60.9	E	0	0	43	43	360	360
A19	2/8/08	12	G1	047	68.9	49.8	0	0	32	33	360	360	69.4	50.3	E	0	0	32	32	360	360
A19	2/8/08	65	G1	047									71.8	39.8	B	0	0	19	21	360	360
A20	2/11/08	33	G1	028	67.1	39.0	0	0	18	18	360	268	75.8	47.7	A	0	0	27	27	360	360
A20	2/11/08	12	G1	028	52.7	33.8	0	0	16	16	228	215	71.9	53.0	A	0	0	35	35	360	360
A20	2/11/08	65	G1	028									73.7	41.7	A	0	0	22	22	360	279
A21	2/12/08	33	G1	052	73.9	45.7	0	0	25	25	279	267	74.5	46.3	E	0	0	19	19	360	145
A21	2/12/08	12	G1	052																	
A21	2/12/08	65	G1	052																	
A22	2/14/08	33	G1	058	77.2	48.8	0	0	30	31	360	268	83.5	55.1	A	0	0	35	36	360	360
A22	2/14/08	12	G1	058																	
A22	2/14/08	65	G1	058									81.4	49.3	A	0	0	31	32	299	296
A23	2/15/08	33	G1	057	82.1	53.7	0	0	37	38	360	360	79.8	51.4	E	0	0	31	32	360	360
A23	2/15/08	12	G1	057	65.4	46.3	0	0	29	29	360	360	65.5	46.4	E	0	0	28	30	360	284
A23	2/15/08	65	G1	057									68.8	36.4	B	0	0	18	19	360	42
A24*	2/18/08	33	G1	010	89.9	61.3	0	0	43	45	360	360	91.5	62.9	E	0	0	44	44	360	360
A24*	2/18/08	12	G1	010	66.8	47.6	0	0	30	30	317	277	67.5	48.3	E	0	0	31	31	309	237
A24*	2/18/08	65	G1	010									58.0	25.7	A	0	0	7	8	50	49
A25	2/19/08	33	G1	022	68.3	39.7	0	0	22	23	276	267	75.5	46.9	A	0	0	27	27	360	360
A25	2/19/08	12	G1	022	61.7	42.7	0	0	25	26	332	314	65.0	46.0	A	0	0	27	27	360	360
A25	2/19/08	65	G1	022									72.8	41.9	A	0	0	23	23	360	360
A26	2/20/08	33	G1	026	78.8	50.5	0	0	33	33	360	360	77.2	48.9	E	0	0	25	25	360	360
A26	2/20/08	12	G1	026	57.8	39.0	0	0	21	21	283	263	62.3	43.5	A	0	0	22	22	360	280
A26	2/20/08	65	G1	026									70.9	39.1	B	0	0	20	20	360	360
A27*	2/21/08	33	G1	009	95.8	67.4	0	0	50	50	360	360	95.5	67.1	E	0	0	49	51	360	360
A27*	2/21/08	12	G1	009	56.6	40.1	4	555	0	0	0	0	56.3	39.8		555	555	0	0	0	0
A27*	2/21/08	65	G1	009									52.3	20.1	A	999	999	0	0	0	0
A28	2/25/08	33	G1	072	84.7	55.8	0	0	39	40	360	360	84.2	55.3	D	0	0	35	36	346	334
A28	2/25/08	12	G1	072	63.0	44.0	0	0	26	26	219	202	72.7	53.7	D	0	0	36	36	360	360
A28	2/25/08	65	G1	072									81.4	49.3	D	0	0	31	31	360	360

* denotes test site "outside the box"

Table A6-1 (cont) Summary of 30° AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
A29	2/26/08	33	G1	032	60.7	32.2	0	0	10	12	360	360	87.6	59.1	A	0	0	40	43	360	360
A29	2/26/08	12	G1	032	60.3	41.3	0	0	24	24	360	313	74.4	55.4	A	0	0	38	38	360	360
A29	2/26/08	65	G1	032									81.3	49.3	A	0	0	31	31	360	360
A30	2/29/08	33	G1	038	86.6	58.5	0	0	41	42	360	360	86.4	58.3	E	0	0	40	41	360	102
A30	2/29/08	12	G1	038	67.5	48.9	0	0	31	31	360	360	67.4	48.8	E	0	0	31	31	360	360
A30	2/29/08	65	G1	038									71.8	40.2	B	0	0	15	15	0	0
A31	3/3/08	33	G1	039	77.4	49.2	555	3	0	0	318	226	97.5	69.3	A	0	0	52	52	360	360
A31	3/3/08	12	G1	039																	
A31	3/3/08	65	G1	039																	
A32	3/5/08	33	G1	076	60.7	32.0	0	0	12	12	105	108	64.7	36.0	A	0	999	11	0	326	0
A32	3/5/08	12	G1	076	54.6	35.7	0	0	18	18	156	157	59.4	40.5	A	0	0	20	20	360	360
A32	3/5/08	65	G1	076									65.3	32.9	D	0	0	13	13	81	48
A33	3/6/08	33	G1	061	69.1	40.7	0	0	22	22	360	360	70.8	42.4	C	0	555	16	0	111	0
A33	3/6/08	12	G1	061	54.8	35.7	0	0	15	16	219	211	61.1	42.0	D	0	555	19	0	360	0
A33	3/6/08	65	G1	061									64.5	32.2	C	0	555	9	0	360	0
A34	3/11/08	33	G1	055	70.4	41.6	0	0	22	20	360	360	72.4	43.6	B	0	0	25	26	360	237
A34	3/11/08	12	G1	055	53.5	34.3	0	0	10	10	360	360	60.1	40.9	B	0	0	21	22	360	360
A34	3/11/08	65	G1	055									67.0	34.4	B	0	0	16	16	87	39
A35	3/12/08	33	G1	062	72.6	43.9	0	0	24	24	360	360	75.0	46.3	E	0	0	19	15	360	360
A35	3/12/08	12	G1	062	56.3	37.5	0	0	18	19	307	199	60.1	41.3	C	0	0	22	23	360	360
A35	3/12/08	65	G1	062									69.2	37.0	B	0	0	16	14	360	360
A36	3/13/08	33	G1	041	89.7	61.0	0	0	43	45	360	360	92.1	63.4	E	0	0	43	45	360	360
A36	3/13/08	12	G1	041	64.2	45.2	0	0	28	28	360	360	78.2	59.2	A	0	0	41	42	360	360
A36	3/13/08	65	G1	041									88.5	56.4	A	0	0	38	40	360	360
A37	3/14/08	33	G1	008	63.7	35.2	0	0	11	9	143	64	98.1	69.6	B	0	0	41	41	360	360
A37	3/14/08	12	G1	008	55.4	36.4	0	0	18	19	275	270	110.7	91.7	B	0	0	74	74	360	360
A37	3/14/08	65	G1	008									103.5	71.4	B	0	0	53	44	360	360
A38	3/17/08	33	G1	016	62.9	34.4	555	555	0	0	0	0	75.5	47.0	A	0	0	26	25	360	0
A38	3/17/08	12	G1	016	54.2	35.4	555	555	0	0	0	0	64.8	46.0	A	555	555	0	0	0	0
A38	3/17/08	65	G1	016									70.5	38.9	B	0	0	18	19	360	360
A39	4/21/08	33	G1	005	86.6	57.8	0	0	41	41	360	360	86.8	58.0	E	0	0	41	41	360	360
A39	4/21/08	12	G1	005	60.9	42.0	0	0	25	25	360	360	73.1	54.2	A	0	0	37	36	360	360
A39	4/21/08	65	G1	005									76.9	44.8	A	0	0	26	26	360	360
A40	4/22/08	33	G1	029	73.8	45.0	0	0	24	25	360	0	82.8	54.0	A	0	0	37	37	360	360
A40	4/22/08	12	G1	029	54.4	35.4	0	0	18	16	303	303	75.9	56.9	A	0	0	39	39	360	360
A40	4/22/08	65	G1	029									80.5	48.4	A	0	0	30	30	360	360
B1	4/21/08	33	G1	079	83.1	52.6	0	0	36	36	360	360	96.1	65.6	C	0	0	47	47	127	127
B1	4/21/08	12	G1	079	65.1	43.7	0	0	27	27	291	291	89.0	67.6	C	0	0	49	50	360	360
B1	4/21/08	65	G1	079									79.7	45.3	C	0	0	25	25	146	146
B2	1/16/08	33	G1	002	74.9	44.4	0	0	26	24	360	360	91.2	60.7	A	0	0	44	42	360	360
B2	1/16/08	12	G1	002	58.8	37.2	0	0	21	20	360	360	78.9	57.3	A	0	0	40	40	360	285
B2	1/16/08	65	G1	002									91.7	57.9	A	0	0	41	39	360	360

* denotes test site "outside the box"

Table A6-1 (cont) Summary of 30' AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B3	1/17/08	33	G1	018	68.2	36.9	0	0	21	19	360	290	98.2	66.9	B	0	0	54	53	360	360
B3	1/17/08	12	G1	018	57.7	35.6	0	0	21	20	160	160	77.2	55.1	B	0	0	40	40	360	360
B3	1/17/08	65	G1	018									97.5	62.4	B	0	0	47	47	360	360
B4	1/18/08	33	G1	071	60.0	29.0	0	0	9	8	210	110	79.5	48.5	C	0	0	34	31	360	260
B4	1/18/08	12	G1	071	51.5	29.7	0	0	14	13	205	205	73.1	51.3	C	0	0	35	33	360	271
B4	1/18/08	65	G1	071									81.9	46.7	C	0	0	30	20	360	250
B5	1/21/08	33	G1	024	69.4	40.9	0	0	16	18	360	360	82.4	53.9	A	0	0	34	34	360	123
B5	1/21/08	12	G1	024	55.6	35.9	0	0	18	16	360	360	61.3	41.6	A	0	0	21	21	360	162
B5	1/21/08	65	G1	024									76.3	43.3	A	0	0	22	22	360	360
B6	1/22/08	33	G1	044	75.7	45.2	0	0	28	28	360	360	72.6	42.1	E	0	0	19	20	360	360
B6	1/22/08	12	G1	044	58.0	36.6	0	0	17	18	360	360	59.0	37.6	E	0	0	16	16	360	360
B6	1/22/08	65	G1	044									60.4	26.0	A	555	555	0	0	135	149
B7*	1/23/08	33	DX	010	72.8	42.3	0	0	32	34	287	190	72.1	41.6	E	0	0	22	22	174	162
B7*	1/23/08	12	DX	010	65.4	44.2	0	0	28	28	322	234	66.0	44.8	E	0	0	27	26	221	154
B7*	1/23/08	65	DX	010									64.4	29.9	A	0	0	10	10	84	75
B8	1/24/08	33	G1	051	73.3	43.5	0	0	24	24	360	360	75.0	45.2	E	0	0	20	17	360	0
B8	1/24/08	12	G1	051	59.8	38.6	0	0	20	19	319	270	63.0	41.8	A	0	0	14	12	360	40
B8	1/24/08	65	G1	051									71.4	37.3	A	0	9	14	0	266	0
B9	1/25/08	33	G1	064	65.5	36.2	0	0	16	14	286	212	78.4	49.1	B	0	0	30	30	360	101
B9	1/25/08	12	G1	064	55.8	34.8	0	0	17	17	222	238	64.8	43.8	B	0	0	25	24	360	302
B9	1/25/08	65	G1	064									80.3	46.0	B	0	0	28	28	360	261
B10	1/28/08	33	G1	010	75.3	44.8	0	0	28	28	161	236	79.0	48.5	E	0	0	26	25	360	360
B10	1/28/08	12	G1	010	75.6	54.1	0	0	37	38	143	208	79.0	57.5	A	0	0	39	39	360	352
B10	1/28/08	65	G1	010									79.9	45.2	A	0	0	28	28	275	103
B11	1/29/08	33	G1	019	68.1	37.1	0	0	19	19	360	162	81.2	50.2	A	0	0	32	31	360	360
B11	1/29/08	12	G1	019	58.1	36.9	0	0	20	20	109	115	82.7	61.5	A	0	0	44	44	360	360
B11	1/29/08	65	G1	019									95.1	60.7	A	0	0	42	42	360	360
B12	1/30/08	33	G1	065	87.7	57.2	0	0	40	40	360	255	85.9	55.4	E	0	0	36	36	360	26
B12	1/30/08	12	G1	065	67.3	46.0	0	0	28	28	305	360	69.4	48.1	B	0	555	23	0	360	62
B12	1/30/08	65	G1	065									76.2	41.5	A	0	0	23	23	262	73
B13	1/31/08	33	G1	048	80.5	50.0	0	0	13	12	360	317	84.4	53.9	E	0	0	35	35	360	360
B13	1/31/08	12	G1	048	56.5	35.6	0	0	17	16	222	204	64.7	43.8	A	0	0	25	25	360	360
B13	1/31/08	65	G1	048									74.8	40.4	A	0	0	22	21	360	218
B14	2/1/08	33	G1	068	55.4	25.1	555	999	0	0	0	0	78.6	48.3	A	0	0	30	30	360	153
B14	2/1/08	12	G1	068									73.8	39.9	A	0	0	20	20	328	111
B14	2/1/08	65	G1	068									85.0	54.9	A	0	0	37	37	360	360
B15	2/4/08	33	G1	004	81.8	51.7	0	0	30	28	276	202	61.4	40.1	A	0	0	32	32	360	141
B15	2/4/08	12	G1	004	66.1	44.8	0	0	27	27	250	222	83.5	49.5	A	0	0	30	30	196	79
B15	2/4/08	65	G1	004									89.5	58.8	E	0	0	42	42	360	360
B16	2/5/08	33	G1	013	90.5	59.8	0	0	43	43	360	360	76.0	54.8	E	0	0	37	37	360	360
B16	2/5/08	12	G1	013	75.3	54.1	0	0	37	37	360	360	77.6	43.3	A	0	0	24	24	179	51

* denotes test site "outside the box"

Table A6-1 (cont) Summary of 30° AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B17	2/6/08	33	G1	012	62.7	31.8	999	999	0	0	167	3	92.7	61.8	A	0	0	45	45	360	331
B17	2/6/08	12	G1	012	64.1	42.5	0	0	26	25	360	218	72.2	50.6	A	0	0	32	32	360	344
B17	2/6/08	65	G1	012									86.4	51.8	A	0	0	33	34	360	360
B18	2/7/08	33	G1	025	82.0	51.1	0	0	35	35	360	360	83.6	52.7	E	0	0	35	35	360	125
B18	2/7/08	12	G1	025	64.9	43.5	0	0	27	27	360	360	76.1	54.7	A	0	0	37	37	360	300
B18	2/7/08	65	G1	025									81.1	46.8	A	0	0	28	28	360	184
B19	2/8/08	33	G1	046	75.7	45.4	0	0	29	29	360	360	78.8	48.5	B	0	0	30	30	360	360
B19	2/8/08	12	G1	046	61.0	39.6	0	0	23	23	360	360	61.5	40.1	A	0	0	13	13	360	259
B19	2/8/08	65	G1	046									78.6	44.4	B	0	0	26	26	360	360
B20	2/11/08	33	G1	030	73.5	43.3	0	0	28	25	360	65	89.8	59.6	A	0	0	44	43	360	360
B20	2/11/08	12	G1	030	58.0	37.1	0	0	19	18	360	360	82.7	61.8	A	0	0	45	44	360	360
B20	2/11/08	65	G1	030									88.0	53.9	A	0	0	35	41	360	360
B21	2/12/08	33	G1	053	62.6	32.2	0	0	15	14	285	80	67.3	36.9	A	0	0	20	18	360	360
B21	2/12/08	12	G1	053																	
B21	2/12/08	65	G1	053																	
B22	2/14/08	33	G1	059	71.7	40.5	0	0	23	22	360	340	74.9	43.7	A	0	0	24	23	360	110
B22	2/14/08	12	G1	059																	
B22	2/14/08	65	G1	059																	
B23	2/15/08	33	G1	056	71.8	41.3	0	0	26	26	360	267	74.5	44.0	E	3	1	24	20	360	260
B23	2/15/08	12	G1	056	61.5	40.1	0	0	25	25	305	290	65.1	43.7	E	0	0	26	26	360	260
B23	2/15/08	65	G1	056									74.9	40.3	B	0	0	22	21	360	258
B24 *	2/18/08	33	IX	011	83.2	53.4	0	0	38	38	360	360	84.3	54.5	E	0	0	37	37	360	360
B24 *	2/18/08	12	IX	011	61.8	41.1	0	0	25	24	245	220	63.6	42.9	E	0	0	26	26	275	210
B24 *	2/18/08	65	IX	011									68.7	34.8	A	0	0	17	17	150	140
B25	2/19/08	33	G1	021	76.4	46.2	0	0	31	31	360	220	72.3	42.1	E	3	0	28	25	360	55
B25	2/19/08	12	G1	021	54.4	33.2	0	0	15	15	360	215	61.9	40.7	A	0	0	26	25	360	360
B25	2/19/08	65	G1	021									73.9	39.8	A	0	0	23	22	360	360
B26	2/20/08	33	G1	027	52.6	22.6	0	0	9	8	195	130	78.6	48.6	A	0	0	40	39	360	360
B26	2/20/08	12	G1	027	45.3	24.5	0	0	15	14	250	260	73.8	53.0	A	0	0	37	36	360	360
B26	2/20/08	65	G1	027									78.7	45.2	A	0	0	35	35	360	325
B27 *	2/21/08	33	IX	008	77.0	46.5	0	0	27	27	360	360	77.8	47.3	E	0	0	30	30	360	360
B27 *	2/21/08	12	IX	008	49.3	27.8	999	999	0	0	0	0	57.5	36.0	A	0	999	16	0	35	5
B27 *	2/21/08	65	IX	008									72.2	37.7		0	0	10	10	75	60
B28	2/25/08	33	G1	073	86.2	55.5	0	0	37	37	360	360	93.5	62.8	D	0	0	46	46	307	360
B28	2/25/08	12	G1	073	62.2	40.7	0	0	24	24	337	360	74.7	53.2	D	0	0	35	35	360	160
B28	2/25/08	65	G1	073									97.3	63.8	D	0	0	45	45	360	360
B29	2/26/08	33	G1	033	70.4	40.0	0	0	23	23	360	360	85.8	55.4	A	0	0	38	38	360	360
B29	2/26/08	12	G1	033	58.7	37.2	0	0	19	20	323	319	71.3	49.8	A	0	0	32	32	360	360
B29	2/26/08	65	G1	033									83.0	48.7	A	0	0	30	31	360	360
B30	2/27/08	33	G1	074	70.6	40.2	0	0	23	23	230	206	82.8	52.4	D	0	0	34	35	360	360
B30	2/27/08	12	G1	074	48.5	27.0	0	0	7	7	172	146	71.2	49.7	D	0	0	32	32	360	360
B30	2/27/08	65	G1	074									79.7	45.3	D	0	555	18	0	360	0

* denotes test site "outside the box"

Table A6-1 (cont) Summary of 30' AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B31	2/28/08	33	G1	075	48.3	17.8	999	999	0	0	0	0	67.9	37.4	D	0	0	20	20	236	151
B31	2/28/08	12	G1	075	39.1	17.9	999	999	0	0	0	0	73.0	51.8	D	0	0	34	34	360	205
B31	2/28/08	65	G1	075									67.3	33.0	D	0	0	14	14	155	145
B32	2/29/08	33	G1	037	71.1	40.8	0	0	23	23	360	360	72.5	42.2	E	0	0	23	23	360	65
B32	2/29/08	12	G1	037	55.2	34.3	0	0	15	15	360	360	62.6	41.7	A	0	0	22	22	360	360
B32	2/29/08	65	G1	037									68.3	34.2	B	0	0	15	15	146	50
B33	3/3/08	33	G1	040	77.3	47.4	0	0	28	28	360	360	78.7	48.8	A	0	0	27	28	360	360
B33	3/3/08	12	G1	040	54.4	33.2	0	0	9	9	360	319	71.8	50.6	A	0	0	32	32	360	292
B33	3/3/08	65	G1	040									73.2	39.2	A	0	0	20	21	360	316
B34	3/4/08	33	G1	067	53.5	23.2	555	999	0	0	0	0	62.9	32.6	C	0	0	10	10	323	63
B34	3/4/08	12	G1	067	43.5	22.3	0	0	4	4	51	50	54.1	32.9	D	0	0	10	8	360	84
B34	3/4/08	65	G1	067									65.4	30.9	C	0	555	9	0	100	0
B35	3/5/08	33	G1	077	65.4	35.1	0	0	18	18	360	360	70.8	40.5	C	0	0	20	19	306	142
B35	3/5/08	12	G1	077	55.1	33.7	0	0	17	17	236	209	62.5	41.1	C	0	0	20	20	360	311
B35	3/5/08	65	G1	077									66.3	32.1	D	0	0	6	4	119	106
B36	3/6/08	33	G1	060	50.0	19.5	999	999	0	0	0	0	69.9	39.4	C	0	0	20	20	360	124
B36	3/6/08	12	G1	060	44.8	23.6	555	555	0	0	65	0	55.7	34.5	D	0	0	14	14	360	360
B36	3/6/08	65	G1	060									57.3	23.2	C	0	0	13	13	155	43
B37	3/7/08	33	G1	036	74.5	44.0	0	0	26	26	360	360	72.7	42.2	E	0	555	8	0	360	0
B37	3/7/08	12	G1	036	51.4	30.2	0	0	5	5	360	360	55.5	34.3	E	0	555	10	0	360	0
B37	3/7/08	65	G1	036									67.5	33.4	B	0	0	11	11	146	115
B38	3/10/08	33	G1	042	66.0	35.8	0	0	20	18	345	344	70.7	40.5	A	0	1	19	17	360	70
B38	3/10/08	12	G1	042	52.5	31.3	0	2	8	8	360	360	59.6	38.4	A	5	0	14	13	360	360
B38	3/10/08	65	G1	042									69.5	36.2	A	0	999	11	0	0	0
B39	3/11/08	33	G1	054	66.6	36.4	0	0	16	17	360	360	66.8	36.6	E	2	2	12	11	360	0
B39	3/11/08	12	G1	054	57.7	36.5	0	0	20	20	79	75	58.7	37.5	E	2	2	16	16	360	185
B39	3/11/08	65	G1	054									63.3	29.0	B	0	0	10	8	70	30
B40	3/12/08	33	G1	045	67.9	37.6	0	0	18	18	360	360	67.6	37.3	E	0	4	14	14	360	360
B40	3/12/08	12	G1	045	58.8	37.4	0	0	21	21	360	360	60.1	38.7	E	0	0	21	21	360	305
B40	3/12/08	65	G1	045									63.2	29.1	A	0	0	10	8	177	100
B41	3/13/08	33	G1	031	65.6	35.4	0	0	14	13	360	175	78.6	48.4	A	0	0	29	28	360	360
B41	3/13/08	12	G1	031	54.5	33.5	0	0	14	13	250	270	68.9	47.9	A	0	0	29	29	360	360
B41	3/13/08	65	G1	031									79.0	44.7	A	0	0	29	29	360	360
B42	3/14/08	33	G1	007	74.5	44.3	0	0	29	29	360	360	82.8	52.6	B	0	0	40	40	360	297
B42	3/14/08	12	G1	007	56.3	35.1	0	0	18	16	360	360	72.7	51.5	B	0	0	33	33	360	325
B42	3/14/08	65	G1	007									87.0	52.1	B	0	0	33	33	360	360
B43	3/17/08	33	G1	006	83.6	53.4	0	0	36	36	329	273	84.4	54.2	A	0	0	32	31	360	95
B43	3/17/08	12	G1	006	72.2	51.0	0	0	34	34	360	290	75.1	53.9	A	999	999	0	0	358	92
B43	3/17/08	65	G1	006									86.6	52.2	A	0	0	33	33	360	249
B44 *	3/18/08	33	HD	001	77.9	47.7	0	0	31	31	360	246	78.2	48.0	E	0	0	29	29	302	134
B44 *	3/18/08	12	HD	001	53.5	32.6	0	0	15	15	208	208	59.0	38.1	A	0	0	19	19	168	118
B44 *	3/18/08	65	HD	001									66.6	32.2	A	0	0	5	4	77	80

* denotes test site "outside the box"

Table A6-1 (cont) Summary of 30° AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B45 *	3/19/08	33	HD	002	95.6	65.2	0	0	47	47	360	360	94.7	64.3	E	0	0	47	47	360	360
B45 *	3/19/08	12	HD	002	82.7	61.4	0	0	44	44	360	360	82.6	61.3	E	0	0	44	44	360	360
B45 *	3/19/08	65	HD	002									52.3	18.2		999	999	0	0	0	0
B46 *	3/20/08	33	HD	003	68.0	37.6	0	0	16	17	292	92	66.2	35.8	E	0	0	15	14	230	42
B46 *	3/20/08	12	HD	003	45.7	24.4	0	0	5	4	57	55	41.2	19.9	A	555	999	0	0	0	0
B46 *	3/20/08	65	HD	003									58.5	24.2	A	0	0	5	6	87	87
B47 *	3/21/08	33	HD	004	75.7	45.4	0	555	20	0	360	0	78.3	48.0		0	555	20	0	283	0
B47 *	3/21/08	12	HD	004	71.9	50.7	0	0	30	30	360	360	71.0	49.8	E	0	0	29	29	360	360
B47 *	3/21/08	65	HD	004									53.5	19.4	A	0	0	3	3	29	29
B48 *	3/24/08	33	HD	005	82.9	52.3	0	0	22	22	247	229	82.9	52.3	E	0	0	34	34	315	158
B48 *	3/24/08	12	HD	005	68.3	47.1	0	0	20	20	245	249	59.4	38.2		0	0	19	19	285	110
B48 *	3/24/08	65	HD	005									67.2	32.9	D	0	0	13	14	0	73
B49	3/25/08	33	HD	006	81.1	50.9	0	0	31	30	360	163	78.7	48.5	E	0	0	30	27	360	153
B49	3/25/08	12	HD	006	77.9	56.9	0	0	40	39	360	360	75.3	54.3	E	0	0	39	39	360	305
B49	3/25/08	65	HD	006									80.1	45.9	A	0	0	25	24	360	0
B50 *	3/26/08	33	HD	007	74.0	43.2	0	0	27	27	360	360	76.8	46.0	E	0	0	24	23	360	275
B50 *	3/26/08	12	HD	007	63.9	42.6	0	0	26	26	245	260	64.9	43.6	E	0	0	21	21	255	140
B50 *	3/26/08	65	HD	007									67.0	33.5	A	0	0	12	11	95	35
B51 *	3/27/08	33	HD	008	83.9	53.2	0	0	35	35	360	360	84.9	54.2	E	0	0	37	37	360	360
B51 *	3/27/08	12	HD	008	65.8	44.4	0	0	27	27	360	360	76.0	54.6	E	0	0	27	27	360	360
B51 *	3/27/08	65	HD	008									58.3	23.8	A	0	0	3	4	20	20
B52 *	3/28/08	33	HD	009	80.2	49.3	2	0	26	21	360	250	70.3	39.4	E	0	0	28	28	360	0
B52 *	3/28/08	12	HD	009	55.5	33.7	1	555	10	0	240	0	45.2	23.4	E	1	999	10	0	360	0
B52 *	3/28/08	65	HD	009									55.4	21.8	A	999	999	0	0	0	0
B53	3/31/08	33	HD	010	68.9	39.1	0	0	21	21	360	160	80.7	50.9	A	0	0	31	32	360	310
B53	3/31/08	12	HD	010	51.0	30.2	0	0	12	12	237	237	73.2	52.4	A	0	0	34	35	360	360
B53	3/31/08	65	HD	010									79.9	46.1	A	0	0	27	28	360	360
B54 *	4/1/08	33	HD	011	83.3	52.8	0	0	35	35	360	360	84.7	54.2	E	0	0	36	37	360	360
B54 *	4/1/08	12	HD	011	36.3	15.2	555	555	0	0	0	0	47.0	25.9		999	999	0	0	0	0
B54 *	4/1/08	65	HD	011									53.4	18.9	A	999	999	0	0	0	0
B55	4/2/08	33	HD	012	75.7	45.6	0	0	27	27	360	298	77.0	46.9	A	0	0	32	33	360	360
B55	4/2/08	12	HD	012	65.5	43.8	0	0	25	26	158	158	85.9	64.2	A	0	0	47	48	360	360
B55	4/2/08	65	HD	012									75.9	41.9	A	0	0	27	28	360	223
B56 *	4/3/08	33	HD	013	82.1	52.0	0	0	34	33	360	360	84.5	54.4	E	0	0	36	34	360	360
B56 *	4/3/08	12	HD	013	54.2	33.1	0	0	14	14	331	331	55.5	34.4	E	0	0	13	13	331	331
B56 *	4/3/08	65	HD	013									62.6	28.4	A	0	0	9	10	66	66
B57	4/4/08	33	G1	035	80.5	50.1	0	0	32	33	360	360	77.8	47.4	E	0	0	29	29	360	360
B57	4/4/08	12	G1	035	70.6	48.9	0	0	32	33	360	360	71.9	50.2	E	0	0	32	33	360	360
B57	4/4/08	65	G1	035									73.8	39.5	A	0	0	20	21	264	264
B58	4/22/08	33	G1	034	80.5	50.1	0	0	32	32	326	326	81.1	50.7	E	0	0	33	34	360	360
B58	4/22/08	12	G1	034	62.2	41.0	0	0	23	24	307	307	63.7	42.5	E	0	0	24	25	360	360
B58	4/22/08	65	G1	034									68.9	34.7	B	0	0	10	10	325	325

* denotes test site "outside the box"

Table A6-1 (cont) Summary of 30' AGL raw outdoor data

Test Site Name & Date					DTx OFF								DTx ON								
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B59 *	4/23/08	33	HD	014	74.4	44.0	0	0	20	21	360	360	76.8	46.4	E	0	0	25	26	360	360
B59 *	4/23/08	12	HD	014	66.8	45.5	0	0	28	29	360	360	67.5	46.2	E	0	0	28	29	360	360
B59 *	4/23/08	65	HD	014									65.7	31.4	A	0	0	9	9	203	0
B60	4/28/08	33	G1	080	75.8	44.8	0	0	28	29	360	360	77.9	46.9	D	0	0	29	29	360	305
B60	4/28/08	12	G1	080	59.3	37.7	0	0	21	21	137	135	72.7	51.1	D	0	0	33	34	360	360
B60	4/28/08	65	G1	080									71.1	37.4	D	0	0	17	18	360	330
B61 *	4/29/08	33	HD	015	60.8	29.9	0	0	13	14	315	320	63.0	32.1	E	10	999	4	0	160	0
B61 *	4/29/08	12	HD	015	49.1	27.3	0	0	10	10	170	175	50.5	28.7	E	8	999	4	0	95	0
B61 *	4/29/08	65	HD	015									59.5	24.5	D	10	3	1	1	0	0
B62 *	4/30/08	33	HD	016	66.9	36.3	0	0	19	20	285	275	68.5	37.9	E	0	0	21	21	295	295
B62 *	4/30/08	12	HD	016	46.8	25.2	0	0	8	8	90	90	48.5	26.9	E	0	0	6	6	75	75
B62 *	4/30/08	65	HD	016									53.3	18.7	A	999	999	0	0	0	0
B63	5/1/08	33	HD	017	63.7	32.3	0	0	12	12	245	235	70.6	39.2	A	0	0	20	20	360	360
B63	5/1/08	12	HD	017	72.3	50.4	0	0	33	34	360	360	72.7	50.8	E	0	0	33	34	360	360
B63	5/1/08	65	HD	017									66.2	31.9	A	5	0	3	3	360	360
B64	5/2/08	33	HD	018	48.3	17.7	999	999	0	0	0	0	69.8	39.2		0	0	17	17	360	360
B64	5/2/08	12	HD	018	41.4	19.6	999	999	0	0	0	0	58.0	36.2	C	0	0	17	17	360	105
B64	5/2/08	65	HD	018									67.3	32.6	C	0	555	10	10	270	165
B65	5/5/08	33	HD	019	67.6	36.9	0	0	14	14	360	166	81.5	50.8	A	0	0	30	31	360	360
B65	5/5/08	12	HD	019	46.0	24.8	999	999	0	0	141	146	68.2	47.0	A	0	0	28	29	360	360
B65	5/5/08	65	HD	019									78.1	43.6	A	0	0	24	25	360	360
B66	5/6/08	33	HD	020	69.5	38.8	0	0	21	22	360	298	91.8	61.1	A	0	0	43	43	360	222
B66	5/6/08	12	HD	020	61.9	40.6	0	0	23	24	360	360	76.5	55.2	A	0	0	37	38	360	360
B66	5/6/08	65	HD	020									89.6	55.0	A	0	0	35	36	360	360
B67	5/7/08	33	HD	021	80.3	49.4	0	0	32	33	360	360	82.8	51.9	E	0	0	31	31	360	360
B67	5/7/08	12	HD	021	62.3	40.7	0	0	23	24	360	360	68.6	47.0	A	0	0	29	29	360	360
B67	5/7/08	65	HD	021									79.2	44.4	A	0	0	25	26	360	360
B68	5/8/08	33	HD	022	79.1	48.3	0	0	30	31	360	360	79.2	48.4	E	0	0	32	33	360	360
B68	5/8/08	12	HD	022	69.8	48.3	0	0	31	31	348	348	70.6	49.1	E	0	0	31	32	360	299
B68	5/8/08	65	HD	022									61.7	27.1	A	555	555	0	0	0	0
B69	5/9/08	33	HD	023	71.9	41.1	0	0	13	13	360	360	91.1	60.3	A	0	0	42	43	360	297
B69	5/9/08	12	HD	023	52.3	30.7	0	0	9	10	273	273	76.2	54.6	A	0	0	36	37	360	360
B69	5/9/08	65	HD	023									93.0	58.4	A	0	0	40	41	360	360

* denotes test site "outside the box"

Table A6-2 Summary of 15' AGL raw outdoor data

Test Site Name & Date					DTx OFF								DTx ON								
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
A1	1/15/08	33	G1	078	52.4	23.3	555	555	0	0	0	0	79.3	50.2	C	0	0	18	20	360	293
A1	1/15/08	12	G1	078	39.9	19.8	555	555	0	0	0	0	62.9	42.8	C	0	0	24	24	360	283
A1	1/15/08	65	G1	078									78.0	45.2	C	0	0	27	28	360	152
A2	1/16/08	33	G1	001	78.0	49.3	0	0	31	33	360	360	77.7	49.0	E	0	0	29	30	353	78
A2	1/16/08	12	G1	001	68.5	49.5	0	0	32	32	360	360	70.8	51.8	E	3	3	26	25	360	360
A2	1/16/08	65	G1	001									71.4	38.9	A	3	5	9	0	118	250
A3	1/17/08	33	G1	017	59.2	30.7	0	0	8	7	316	0	75.5	47.0	A	1	555	0	0	360	288
A3	1/17/08	12	G1	017	46.5	27.8	3	555	0	0	0	0	72.7	54.0	A	0	0	37	36	232	205
A3	1/17/08	65	G1	017									76.5	44.1	A	0	0	20	19	360	61
A4	1/18/08	33	G1	070	66.2	37.4	0	0	15	16	360	360	68.8	40.0	C	555	555	0	0	69	0
A4	1/18/08	12	G1	070	56.7	37.7	0	0	17	17	156	173	68.3	49.3	C	0	0	31	32	360	201
A4	1/18/08	65	G1	070									73.9	41.4	C	0	0	23	23	360	156
A5	1/21/08	33	G1	023	69.4	41.0	0	0	21	23	360	360	72.4	44.0	E	0	0	19	20	360	360
A5	1/21/08	12	G1	023	60.2	46.5	0	0	24	25	157	170	62.4	48.7	A	0	0	20	11	360	95
A5	1/21/08	65	G1	023									70.5	38.6	A	0	0	20	20	0	0
A6	1/22/08	33	G1	043	66.9	38.5	0	0	20	21	360	240	71.7	43.3	A	0	0	19	20	48	111
A6	1/22/08	12	G1	043	45.4	26.5	0	0	6	6	62	121	57.8	38.9	A	0	0	20	20	168	71
A6	1/22/08	65	G1	043									64.5	33.3	A	0	0	14	14	256	164
A7 *	1/23/08	33	G1	012	60.8	31.9	0	0	12	13	343	205	66.2	37.3	E	0	0	11	11	324	133
A7 *	1/23/08	12	G1	012	52.5	33.3	0	0	16	16	143	157	56.1	36.9	E	0	0	17	18	133	94
A7 *	1/23/08	65	G1	012									51.3	19.1		999	999	0	0	0	0
A8	1/24/08	33	G1	050	74.5	46.0	0	0	17	19	190	132	77.8	49.3	E	0	0	25	26	360	301
A8	1/24/08	12	G1	050	55.0	36.0	0	0	16	17	253	177	64.7	45.7	A	0	0	25	26	360	276
A8	1/24/08	65	G1	050									68.2	36.7	A	0	0	19	20	316	247
A9	1/25/08	33	G1	063	56.3	27.5	0	0	9	10	97	116	64.0	35.2	A	0	555	10	0	94	0
A9	1/25/08	12	G1	063	51.0	32.1	0	0	13	14	182	258	53.7	34.8	E	0	0	11	8	128	23
A9	1/25/08	65	G1	063									63.5	31.7	B	0	0	12	13	131	172
A10	1/28/08	33	G1	009	58.3	29.7	555	555	0	0	75	0	66.0	37.4	E	555	999	0	0	0	0
A10	1/28/08	12	G1	009	42.8	23.8	999	999	0	0	0	0	66.2	47.2	A	0	0	27	26	360	261
A10	1/28/08	65	G1	009									70.0	37.7	A	555	555	0	0	136	0
A11	1/29/08	33	G1	020	79.7	50.8	0	0	31	32	264	228	83.3	54.4	E	0	0	35	34	360	180
A11	1/29/08	12	G1	020	55.9	37.0	0	0	18	19	360	224	72.6	53.7	A	0	0	37	37	360	360
A11	1/29/08	65	G1	020									74.5	42.1	A	0	3	22	23	360	360
A12	1/30/08	33	G1	066	80.2	51.2	0	0	35	36	360	360	80.3	51.3	E	0	0	33	34	68	61
A12	1/30/08	12	G1	066	53.7	34.6	0	0	19	19	185	100	61.4	42.3	D	0	0	22	23	360	156
A12	1/30/08	65	G1	066									70.8	37.9	D	0	0	19	20	128	11
A13	1/31/08	33	G1	049	76.0	47.2	0	0	26	27	203	83	87.4	58.6	A	0	0	42	43	360	360
A13	1/31/08	12	G1	049	61.7	42.7	0	0	24	24	222	215	67.9	48.9	A	0	0	33	33	360	40
A13	1/31/08	65	G1	049									82.9	50.5	A	0	0	34	35	360	77
A14	2/1/08	33	G1	069	70.3	41.6	0	0	23	24	304	191	69.0	40.3	E	0	2	23	24	30	35
A14	2/1/08	12	G1	069									67.5	34.7	C	0	0	16	15	180	43

* denotes test site "outside the box"

Table A6-2 (cont) Summary of 15' AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
A15	2/4/08	33	G1	003	86.2	57.4	0	0	39	42	360	360	87.1	58.3	E	0	0	39	39	360	360
A15	2/4/08	12	G1	003	76.9	57.7	0	0	41	41	360	360	75.7	56.5	E	0	0	38	39	360	360
A15	2/4/08	65	G1	003									70.6	37.9	A	0	0	19	19	360	360
A16	2/5/08	33	G1	014	79.0	50.8	0	0	30	33	360	360	80.2	52.0	E	0	0	32	33	360	191
A16	2/5/08	12	G1	014	67.1	50.8	0	0	31	31	360	332	67.5	51.2	E	0	0	31	32	360	360
A16	2/5/08	65	G1	014									70.2	37.9	B	0	0	18	19	324	290
A17	2/6/08	33	G1	011	78.7	50.3	0	0	33	33	360	360	81.6	53.2	A	0	0	35	35	360	360
A17	2/6/08	12	G1	011	62.7	43.9	0	0	25	25	360	360	72.3	53.5	A	0	0	34	34	360	360
A17	2/6/08	65	G1	011									82.4	50.5	A	0	0	32	32	360	360
A18	2/7/08	33	G1	015	69.4	40.9	0	0	23	23	360	360	68.8	40.3	E	0	0	21	21	360	360
A18	2/7/08	12	G1	015	65.1	46.1	0	0	29	29	360	360	65.9	46.9	E	0	0	29	30	360	360
A18	2/7/08	65	G1	015									59.9	27.6	B	555	555	0	0	71	0
A19	2/8/08	33	G1	047	84.2	55.7	0	0	38	39	360	360	84.0	55.5	E	0	0	37	38	360	360
A19	2/8/08	12	G1	047	59.6	40.5	0	0	24	24	360	360	61.2	42.1	E	0	0	23	25	360	199
A19	2/8/08	65	G1	047									75.0	43.0	B	0	0	25	25	323	320
A20	2/11/08	33	G1	028	67.8	39.7	0	0	20	21	150	113	80.5	52.4	A	0	0	33	34	360	360
A20	2/11/08	12	G1	028	47.6	28.7	0	0	8	10	144	132	66.3	47.4	A	0	0	28	29	360	360
A20	2/11/08	65	G1	028									71.9	39.9	A	0	0	21	21	360	360
A21	2/12/08	33	G1	052	67.8	39.6	0	0	17	17	360	158	70.8	42.6	E	0	0	17	17	360	118
A21	2/12/08	12	G1	052																	
A21	2/12/08	65	G1	052																	
A22	2/14/08	33	G1	058	71.4	43.0	0	0	20	21	331	298	71.8	43.4	A	0	0	25	26	360	142
A22	2/14/08	12	G1	058																	
A22	2/14/08	65	G1	058									67.3	35.2	A	0	0	14	14	303	318
A23	2/15/08	33	G1	057	73.0	44.6	0	0	27	27	360	360	72.6	44.2	E	0	0	25	23	360	205
A23	2/15/08	12	G1	057	56.7	37.6	0	0	19	20	360	360	58.8	39.7	E	0	0	18	18	360	94
A23	2/15/08	65	G1	057									68.3	35.9	B	0	0	15	15	360	52
A24 *	2/18/08	33	JX	010	82.9	54.3	0	0	34	36	360	360	83.1	54.5	E	0	0	32	34	360	360
A24 *	2/18/08	12	JX	010	60.4	41.2	0	0	23	23	220	216	58.1	38.9	E	0	0	23	24	235	215
A24 *	2/18/08	65	JX	010									52.2	19.9	A	999	999	0	0	0	0
A25	2/19/08	33	G1	022	65.6	37.0	0	0	19	20	277	259	72.2	43.6	A	0	0	23	24	286	122
A25	2/19/08	12	G1	022	61.8	42.8	0	0	25	26	282	284	61.8	42.8	E	0	0	25	25	360	360
A25	2/19/08	65	G1	022									69.3	38.4	A	0	0	20	20	360	234
A26	2/20/08	33	G1	026	70.0	41.7	0	0	20	20	360	360	71.8	43.5	E	0	0	20	20	360	347
A26	2/20/08	12	G1	026	59.2	40.4	0	0	22	23	360	360	67.3	48.5	A	0	0	30	30	360	360
A26	2/20/08	65	G1	026									66.2	34.4	B	0	0	14	15	360	108
A27 *	2/21/08	33	JX	009	83.5	55.1	0	0	32	35	360	360	83.0	54.6	E	0	0	30	34	360	360
A27 *	2/21/08	12	JX	009	45.2	28.7	555	999	0	0	0	0	49.7	33.2	999	999	0	0	0	0	
A27 *	2/21/08	65	JX	009									52.7	20.5	A	555	555	0	0	0	0
A28	2/25/08	33	G1	072	75.3	46.4	0	0	26	26	360	360	81.0	52.1	D	0	0	26	26	360	360
A28	2/25/08	12	G1	072	57.0	38.0	0	0	16	16	360	360	67.6	48.6	D	0	0	29	29	360	360
A28	2/25/08	65	G1	072									79.4	47.3	D	0	0	21	21	360	220

* denotes test site “outside the box”

Table A6-2 (cont) Summary of 15' AGL raw outdoor data

Test Site Name & Date					DTx OFF								DTx ON								
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
A29	2/26/08	33	G1	032	65.1	36.6	0	0	19	20	318	265	77.9	49.4	A	0	0	27	29	360	360
A29	2/26/08	12	G1	032	59.5	40.5	0	0	23	23	323	325	67.9	48.9	A	0	0	30	30	360	360
A29	2/26/08	65	G1	032									78.0	46.0	A	0	0	28	28	360	262
A30	2/29/08	33	G1	038	76.4	48.3	0	0	30	32	360	360	76.9	48.8	E	0	0	31	32	360	22
A30	2/29/08	12	G1	038	61.0	42.4	0	0	25	25	360	360	61.2	42.6	E	0	0	23	23	360	110
A30	2/29/08	65	G1	038									67.6	36.0	B	0	0	12	12	319	0
A31	3/3/08	33	G1	039	73.8	45.6	0	0	20	20	250	107	82.5	54.3	A	0	0	23	23	360	360
A31	3/3/08	12	G1	039																	
A31	3/3/08	65	G1	039																	
A32	3/5/08	33	G1	076	57.5	28.8	555	555	0	0	0	0	62.0	33.3	E	555	555	0	0	0	0
A32	3/5/08	12	G1	076	57.0	38.1	0	0	20	20	166	150	58.3	39.4	E	0	0	19	19	360	360
A32	3/5/08	65	G1	076									62.3	29.9	D	555	555	0	0	0	0
A33	3/6/08	33	G1	061	67.6	39.2	0	999	11	0	274	0	68.4	40.0	E	555	999	0	0	89	0
A33	3/6/08	12	G1	061	54.2	35.1	0	0	14	14	222	204	60.0	40.9	C	0	0	18	18	360	212
A33	3/6/08	65	G1	061									72.5	40.2	C	0	0	16	16	21	56
A34	3/11/08	33	G1	055	66.6	37.8	0	0	16	16	360	360	69.4	40.6	E	0	0	18	16	360	360
A34	3/11/08	12	G1	055	50.4	31.2	0	0	10	10	328	332	62.1	42.9	B	0	0	23	23	360	122
A34	3/11/08	65	G1	055									66.5	33.9	B	0	0	16	16	121	129
A35	3/12/08	33	G1	062	70.7	42.0	0	0	24	24	360	292	72.6	43.9	E	0	0	20	20	360	360
A35	3/12/08	12	G1	062	54.3	35.5	0	0	11	12	251	158	57.1	38.3	A	0	555	14	0	360	0
A35	3/12/08	65	G1	062									63.9	31.7	A	0	555	9	0	133	0
A36	3/13/08	33	G1	041	78.6	49.9	0	0	31	32	360	360	82.5	53.8	E	0	0	29	29	360	360
A36	3/13/08	12	G1	041	58.9	39.9	0	0	22	22	219	175	69.0	50.0	A	0	0	31	31	360	360
A36	3/13/08	65	G1	041									82.0	49.9	A	0	0	32	33	360	360
A37	3/14/08	33	G1	008	57.3	28.8	0	0	3	3	50	42	100.0	71.5	B	0	0	47	47	360	360
A37	3/14/08	12	G1	008	55.1	36.1	0	0	14	16	281	299	116.6	97.6	B	0	0	80	80	360	360
A37	3/14/08	65	G1	008									98.7	66.6	B	0	0	49	50	360	360
A38	3/17/08	33	G1	016	63.2	34.7	0	555	8	0	254	0	70.9	42.4	B	0	555	19	0	360	0
A38	3/17/08	12	G1	016	56.9	38.1	0	0	17	17	114	108	62.6	43.8	A	555	555	0	0	0	0
A38	3/17/08	65	G1	016									67.6	36.0	B	0	555	11	0	360	0
A39	4/21/08	33	G1	005	81.2	52.4	0	0	35	36	360	360	81.6	52.8	E	0	0	26	27	360	360
A39	4/21/08	12	G1	005	55.6	36.7	0	0	16	16	360	360	59.5	40.6	A	0	0	17	11	360	0
A39	4/21/08	65	G1	005									76.2	44.1	A	0	0	26	27	360	360
A40	4/22/08	33	G1	029	70.3	41.5	0	0	24	24	360	360	79.3	50.5	A	0	0	28	28	360	360
A40	4/22/08	12	G1	029	44.8	25.8	555	555	0	0	0	0	64.3	45.3	A	0	0	26	26	360	360
A40	4/22/08	65	G1	029									77.2	45.1	A	0	0	26	26	360	360
B1	4/21/08	33	G1	079	80.9	50.4	0	0	33	33	360	360	87.7	57.2		0	0	38	39	265	265
B1	4/21/08	12	G1	079	60.9	39.5	555	555	0	0	0	0	84.8	63.4	C	0	0	46	46	295	295
B1	4/21/08	65	G1	079									75.2	40.8	C	0	0	21	21	156	156
B2	1/16/08	33	G1	002	69.9	39.4	0	0	17	16	360	318	87.9	57.4	A	0	0	43	42	360	360
B2	1/16/08	12	G1	002	61.0	39.4	0	0	22	21	360	360	77.0	55.4	A	0	0	38	38	360	360
B2	1/16/08	65	G1	002									91.7	57.9	A	0	0	42	41	360	360

* denotes test site "outside the box"

Table A6-2 (cont) Summary of 15' AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B3	1/17/08	33	G1	018	67.7	36.4	0	0	21	19	360	294	94.2	62.9	B	0	0	47	46	360	360
B3	1/17/08	12	G1	018	44.2	22.1	0	0	16	15	180	155	75.7	53.6	B	0	0	38	37	360	360
B3	1/17/08	65	G1	018									90.0	54.9	B	0	0	39	40	360	360
B4	1/18/08	33	G1	071	55.3	24.3	0	0	7	5	104	79	78.0	47.0	C	0	0	29	29	360	360
B4	1/18/08	12	G1	071	48.1	26.3	0	0	10	9	147	146	68.6	46.8	C	0	0	34	32	360	360
B4	1/18/08	65	G1	071									81.9	46.7	C	0	0	31	30	360	360
B5	1/21/08	33	G1	024	67.2	38.7	0	0	18	19	360	360	77.3	48.8	A	0	0	30	29	360	97
B5	1/21/08	12	G1	024	53.3	33.6	0	0	18	17	167	119	63.1	43.4	A	0	0	24	23	360	360
B5	1/21/08	65	G1	024									74.6	41.6	A	0	0	22	21	360	321
B6	1/22/08	33	G1	044	71.1	40.6	0	0	23	23	360	360	74.5	44.0	E	0	0	26	26	360	360
B6	1/22/08	12	G1	044	59.1	37.7	0	0	20	20	360	360	59.3	37.9	A	0	0	21	21	360	66
B6	1/22/08	65	G1	044									60.0	25.6	A	555	555	0	0	0	0
B7 *	1/23/08	33	DX*	013	77.1	46.6	0	0	31	31	230	206	74.4	43.9	E	0	0	27	27	134	124
B7 *	1/23/08	12	DX*	013	63.1	41.9	0	0	25	26	360	263	63.8	42.6	E	0	0	26	26	81	64
B7 *	1/23/08	65	DX*	013									63.0	28.5	A	0	0	10	10	47	17
B8	1/24/08	33	G1	051	74.0	44.2	0	0	25	27	360	360	73.6	43.8	E	0	0	18	19	360	360
B8	1/24/08	12	G1	051	60.8	39.6	0	0	23	23	360	360	64.8	43.6	A	0	555	19	0	360	167
B8	1/24/08	65	G1	051									72.6	38.6	B	0	555	16	0	288	32
B9	1/25/08	33	G1	064	62.0	32.7	0	0	14	10	168	177	77.8	48.5	B	0	0	30	30	206	226
B9	1/25/08	12	G1	064	54.5	33.5	0	0	16	16	163	199	60.3	39.3	B	0	0	16	18	294	82
B9	1/25/08	65	G1	064									73.9	39.6	B	0	0	22	22	236	163
B10	1/28/08	33	G1	010	76.7	46.2	0	0	29	30	360	217	85.3	54.8	A	0	0	35	35	182	77
B10	1/28/08	12	G1	010	74.4	52.9	0	0	36	36	360	335	76.2	54.7	A	0	0	34	35	360	360
B10	1/28/08	65	G1	010									85.8	51.1	A	0	0	33	33	184	166
B11	1/29/08	33	G1	019	65.9	34.9	0	0	14	11	165	41	79.3	48.3	A	0	0	30	30	360	360
B11	1/29/08	12	G1	019	53.5	32.3	0	0	16	14	203	196	80.2	59.0	A	0	0	41	41	360	360
B11	1/29/08	65	G1	019									88.8	54.4	A	0	0	35	35	360	360
B12	1/30/08	33	G1	065	82.5	52.0	0	0	35	35	340	284	76.9	46.4	E	0	0	28	26	327	208
B12	1/30/08	12	G1	065	65.8	44.5	0	0	27	27	360	169	61.9	40.6	E	0	0	17	10	360	58
B12	1/30/08	65	G1	065									75.0	40.3	A	0	0	21	21	331	263
B13	1/31/08	33	G1	048	78.5	48.0	0	0	31	31	360	360	82.7	52.2	E	0	0	35	35	360	330
B13	1/31/08	12	G1	048	56.9	36.0	0	0	19	18	141	133	63.0	42.1	A	0	0	20	20	360	360
B13	1/31/08	65	G1	048									78.2	43.8	A	0	0	22	22	303	235
B14	2/1/08	33	G1	068	57.7	27.4	0	0	2	2	15	18	74.5	44.2	A	0	0	25	25	360	360
B14	2/1/08	12	G1	068									71.4	37.5	A	0	0	19	19	282	157
B14	2/1/08	65	G1	068									78.6	48.5	A	0	0	28	25	360	360
B15	2/4/08	33	G1	004	80.5	50.4	0	0	30	31	360	360	71.7	50.4	A	0	0	33	33	360	360
B15	2/4/08	12	G1	004	64.1	42.8	0	0	25	25	299	162	80.1	46.1	A	0	0	26	26	230	91
B15	2/4/08	65	G1	004									73.2	38.9	A	0	0	18	19	183	26
B16	2/5/08	33	G1	013	87.5	56.8	0	0	40	40	360	360	76.8	46.1	E	0	0	38	38	360	360
B16	2/5/08	12	G1	013	73.3	52.1	0	0	35	35	360	360	73.5	52.3	E	0	0	35	35	360	360
B16	2/5/08	65	G1	013									73.2	38.9	A	0	0	18	19	183	26

* denotes test site "outside the box"

Table A6-2 (cont) Summary of 15° AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B17	2/6/08	33	G1	012	63.6	32.7	0	0	8	8	103	12	91.5	60.6	A	0	0	44	43	360	360
B17	2/6/08	12	G1	012	63.2	41.6	0	0	23	23	360	175	65.8	44.2	A	0	0	22	22	360	360
B17	2/6/08	65	G1	012									85.7	51.1	A	0	0	31	31	360	360
B18	2/7/08	33	G1	025	84.5	53.6	0	0	37	37	360	360	85.1	54.2	E	0	0	35	35	360	360
B18	2/7/08	12	G1	025	61.5	40.1	0	0	22	22	360	283	70.6	49.2	A	0	0	32	32	360	360
B18	2/7/08	65	G1	025									77.4	43.1	A	0	0	24	24	312	360
B19	2/8/08	33	G1	046	72.3	42.0	0	0	23	23	360	301	74.9	44.6	B	0	999	22	0	360	119
B19	2/8/08	12	G1	046	58.5	37.1	0	0	20	20	318	330	62.2	40.8	A	0	0	22	22	360	283
B19	2/8/08	65	G1	046									72.7	38.5	B	0	0	18	18	360	245
B20	2/11/08	33	G1	030	74.8	44.6	0	0	24	21	360	360	88.1	57.9	A	0	0	42	41	360	360
B20	2/11/08	12	G1	030	55.7	34.8	0	0	19	18	260	242	77.7	56.8	A	0	0	41	40	360	360
B20	2/11/08	65	G1	030									88.5	54.4	A	0	0	36	41	360	360
B21	2/12/08	33	G1	053	55.8	25.4	0	0	6	4	150	0	61.8	31.4	B	555	555	0	0	0	0
B21	2/12/08	12	G1	053																	
B21	2/12/08	65	G1	053																	
B22	2/14/08	33	G1	059	65.9	34.7	0	0	19	18	360	360	69.9	38.7	E	3	999	19	0	360	295
B22	2/14/08	12	G1	059																	
B22	2/14/08	65	G1	059									73.2	38.2	A	0	0	22	17	360	360
B23	2/15/08	33	G1	056	64.5	34.0	0	0	18	17	360	242	70.8	40.3	A	0	0	22	19	360	49
B23	2/15/08	12	G1	056	59.2	37.8	0	0	22	21	288	295	60.7	39.3	E	0	0	19	19	360	300
B23	2/15/08	65	G1	056									67.6	33.0	B	0	999	12	0	360	0
B24 *	2/18/08	33	IX	041	81.7	51.9	0	0	36	36	360	360	81.3	51.5	E	0	0	20	19	330	313
B24 *	2/18/08	12	IX	041	53.7	33.0	0	0	17	17	292	280	53.2	32.5	E	0	0	16	16	325	155
B24 *	2/18/08	65	IX	041									63.5	29.6	A	0	0	11	11	150	150
B25	2/19/08	33	G1	021	65.8	35.6	0	0	20	19	360	143	76.3	46.1	A	0	0	26	24	360	110
B25	2/19/08	12	G1	021	56.5	35.3	0	0	19	19	320	300	60.4	39.2	E	0	555	20	0	360	290
B25	2/19/08	65	G1	021									68.6	34.5	A	0	0	14	13	315	305
B26	2/20/08	33	G1	027	63.0	33.0	0	0	9	7	190	180	77.8	47.8	B	0	0	38	37	360	360
B26	2/20/08	12	G1	027	47.3	26.5	0	0	5	5	135	90	67.8	47.0	B	0	0	31	29	295	255
B26	2/20/08	65	G1	027									81.1	47.6	A	0	0	31	30	360	360
B27 *	2/21/08	33	IX	008	77.8	47.3	0	0	28	27	360	360	77.8	47.3	E	0	0	30	30	360	360
B27 *	2/21/08	12	IX	008	44.7	23.2	999	999	0	0	0	0	53.4	31.9		1	999	9	0	0	0
B27 *	2/21/08	65	IX	008									57.4	22.9		0	0	5	5	40	35
B28	2/25/08	33	G1	073	81.1	50.4	0	0	33	33	360	360	91.8	61.1	D	0	0	44	44	294	222
B28	2/25/08	12	G1	073	61.3	39.8	0	0	23	23	360	360	68.8	47.3	D	0	0	29	29	360	140
B28	2/25/08	65	G1	073									85.8	52.3	D	0	0	32	32	360	360
B29	2/26/08	33	G1	033	68.3	37.9	0	0	14	15	360	331	84.6	54.2	A	0	0	37	37	360	360
B29	2/26/08	12	G1	033	58.1	36.6	0	0	16	17	360	360	69.2	47.7	A	0	0	31	31	360	330
B29	2/26/08	65	G1	033									77.4	43.1	A	0	0	24	24	360	360
B30	2/27/08	33	G1	074	67.0	36.6	0	0	17	16	267	220	84.6	54.2	D	0	0	37	37	360	281
B30	2/27/08	12	G1	074	54.8	33.3	0	0	16	16	194	199	68.6	47.1	D	0	0	28	27	360	306
B30	2/27/08	65	G1	074									80.2	45.8	D	0	555	12	0	360	166

* denotes test site "outside the box"

Table A6-2 (cont) Summary of 15' AGL raw outdoor data

Test Site Name & Date					DTx OFF								DTx ON								
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B31	2/28/08	33	G1	075	48.7	18.2	999	999	0	0	0	0	65.2	34.7	D	0	0	17	17	295	150
B31	2/28/08	12	G1	075	39.1	17.9	999	999	0	0	0	0	67.3	46.1	D	0	0	29	29	360	360
B31	2/28/08	65	G1	075									63.3	29.0	D	0	0	10	12	145	137
B32	2/29/08	33	G1	037	73.5	43.2	0	0	25	25	360	360	73.4	43.1	E	0	0	21	5	360	50
B32	2/29/08	12	G1	037	51.1	30.2	0	0	10	11	319	319	61.4	40.5	A	0	0	22	22	360	360
B32	2/29/08	65	G1	037									63.5	29.4	B	0	0	10	10	239	341
B33	3/3/08	33	G1	040	76.1	46.2	0	0	27	27	360	229	78.5	48.6	A	0	0	27	27	360	360
B33	3/3/08	12	G1	040	52.0	30.8	0	0	10	10	360	261	67.0	45.8	A	0	0	23	23	360	360
B33	3/3/08	65	G1	040									74.9	40.9	A	0	0	22	22	360	360
B34	3/4/08	33	G1	067	53.3	23.0	555	999	0	0	0	0	58.0	27.7	D	2	999	4	0	147	0
B34	3/4/08	12	G1	067	43.3	22.1	0	0	3	3	68	56	56.9	35.7	D	0	0	14	11	360	360
B34	3/4/08	65	G1	067									63.5	29.0	C	0	0	5	2	127	0
B35	3/5/08	33	G1	077	59.9	29.6	0	0	13	13	360	178	65.0	34.7	C	0	0	2	1	0	0
B35	3/5/08	12	G1	077	51.6	30.2	0	0	13	13	104	95	59.6	38.2	D	0	0	12	7	360	360
B35	3/5/08	65	G1	077									69.1	34.9	C	0	0	13	13	346	34
B36	3/6/08	33	G1	060	50.0	19.5	999	999	0	0	0	0	70.2	39.7	C	0	0	21	20	262	81
B36	3/6/08	12	G1	060	43.8	22.6	999	999	0	0	0	0	53.6	32.4	D	0	555	6	0	360	0
B36	3/6/08	65	G1	060									64.4	30.3	C	0	0	11	10	104	28
B37	3/7/08	33	G1	036	70.3	39.8	0	0	10	10	360	360	71.1	40.6	E	0	555	13	0	360	46
B37	3/7/08	12	G1	036	54.0	32.8	0	0	15	15	262	259	55.3	34.1	E	0	0	13	12	292	98
B37	3/7/08	65	G1	036									66.7	32.6	B	0	555	7	0	187	0
B38	3/10/08	33	G1	042	64.3	34.1	0	0	15	13	360	335	69.0	38.8	E	1	0	17	14	360	0
B38	3/10/08	12	G1	042	55.3	34.1	0	0	15	14	270	275	63.8	42.6	A	2	0	23	23	360	360
B38	3/10/08	65	G1	042									68.6	35.3	A	25	0	13	11	360	360
B39	3/11/08	33	G1	054	74.4	44.2	0	0	16	14	225	200	74.7	44.5	E	0	0	28	29	360	360
B39	3/11/08	12	G1	054	50.5	29.3	2	0	11	10	154	160	50.9	29.7	E	5	555	10	0	360	110
B39	3/11/08	65	G1	054									58.1	23.8	A	555	999	0	0	15	0
B40	3/12/08	33	G1	045	64.6	34.3	0	0	17	17	360	360	68.4	38.1	E	0	0	15	12	360	360
B40	3/12/08	12	G1	045	56.8	35.4	0	0	18	17	360	360	56.6	35.2	E	0	0	16	15	360	360
B40	3/12/08	65	G1	045									66.0	31.9	A	0	0	13	14	169	50
B41	3/13/08	33	G1	031	60.2	30.0	2	999	4	0	280	75	75.8	45.6	A	0	0	27	26	360	261
B41	3/13/08	12	G1	031	53.2	32.2	0	0	11	12	155	71	65.9	44.9	A	0	0	27	27	360	360
B41	3/13/08	65	G1	031									81.8	47.5	A	0	0	30	30	360	360
B42	3/14/08	33	G1	007	71.8	41.6	0	0	23	22	360	360	85.4	55.2	B	0	0	38	37	360	330
B42	3/14/08	12	G1	007	56.1	34.9	0	1	18	17	360	360	74.8	53.6	B	0	0	34	35	360	360
B42	3/14/08	65	G1	007									83.3	48.4	B	0	0	32	32	360	360
B43	3/17/08	33	G1	006	80.7	50.5	0	0	32	32	360	240	84.5	54.3	A	0	999	30	0	360	0
B43	3/17/08	12	G1	006	68.2	47.0	0	0	30	30	360	337	77.0	55.8	A	0	0	32	32	360	214
B43	3/17/08	65	G1	006									86.0	51.6	A	0	0	32	31	322	323
B44 *	3/18/08	33	HD	001	72.1	41.9	0	0	24	24	360	360	74.2	44.0	E	0	0	23	21	360	103
B44 *	3/18/08	12	HD	001	52.9	32.0	0	0	15	15	178	178	57.3	36.4	A	555	555	0	0	0	0
B44 *	3/18/08	65	HD	001									63.3	28.9	D	999	999	0	0	0	0

* denotes test site "outside the box"

Table A6-2 (cont) Summary of 15' AGL raw outdoor data

Test Site Name & Date					DTx OFF								DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	
B45 *	3/19/08	33	HD	002	99.3	68.9	0	0	52	52	360	360	99.8	69.4	E	0	0	52	52	360	360	
B45 *	3/19/08	12	HD	002	80.7	59.4	0	0	43	43	360	280	81.0	59.7	E	0	0	42	42	360	360	
B45 *	3/19/08	65	HD	002									52.0	17.9		999	999	0	0	0	0	
B46 *	3/20/08	33	HD	003	63.7	33.3	0	0	9	10	108	108	51.7	21.3	E	0	555	10	0	111	0	
B46 *	3/20/08	12	HD	003	42.8	21.5	999	999	0	0	0	0	41.4	20.1	A	999	999	0	0	0	0	
B46 *	3/20/08	65	HD	003									61.2	26.9	A	0	0	7	8	61	61	
B47 *	3/21/08	33	HD	004	75.7	45.4	0	0	19	16	360	69	74.0	43.7	E	0	555	19	0	360	112	
B47 *	3/21/08	12	HD	004	74.6	53.4	0	0	35	35	360	360	72.8	51.6	E	0	0	33	33	360	360	
B47 *	3/21/08	65	HD	004									59.8	25.7	A	555	555	0	0	0	0	
B48 *	3/24/08	33	HD	005	81.7	51.1	0	0	22	22	220	215	81.4	50.8	E	0	0	34	34	325	165	
B48 *	3/24/08	12	HD	005	56.5	35.3	0	0	18	19	165	170	57.9	36.7	E	0	0	12	11	175	0	
B48 *	3/24/08	65	HD	005									66.6	32.3	D	999	3	0	2	1	0	0
B49	3/25/08	33	HD	006	81.8	51.6	0	0	32	32	360	225	80.7	50.5	E	0	0	30	30	360	85	
B49	3/25/08	12	HD	006	72.9	51.9	0	0	33	34	360	360	72.9	51.9	E	0	0	33	33	360	280	
B49	3/25/08	65	HD	006									78.1	43.9	A	0	0	22	21	340	180	
B50 *	3/26/08	33	HD	007	76.0	45.2	0	0	29	29	360	360	76.7	45.9	E	0	0	28	28	360	150	
B50 *	3/26/08	12	HD	007	59.2	37.9	0	0	21	20	210	225	61.2	39.9	E	0	0	15	15	255	175	
B50 *	3/26/08	65	HD	007									69.9	36.4	A	0	0	16	17	110	70	
B51 *	3/27/08	33	HD	008	80.2	49.5	0	0	30	30	360	360	82.6	51.9	E	0	0	31	31	360	360	
B51 *	3/27/08	12	HD	008	59.4	38.0	0	0	20	20	360	360	60.1	38.7	E	0	0	21	21	360	360	
B51 *	3/27/08	65	HD	008									58.0	23.5	A	0	0	3	3	20	25	
B52 *	3/28/08	33	HD	009	82.0	51.1	0	0	30	30	360	0	81.4	50.5	E	0	0	29	28	360	0	
B52 *	3/28/08	12	HD	009	55.5	33.7	0	3	10	10	360	75	55.9	34.1		0	555	6	0	230	0	
B52 *	3/28/08	65	HD	009									54.2	20.6	A	999	999	0	0	0	0	
B53	3/31/08	33	HD	010	66.8	37.0	0	0	17	18	360	194	81.8	52.0	A	0	0	33	34	360	360	
B53	3/31/08	12	HD	010	51.0	30.2	0	0	11	12	236	236	68.5	47.7	A	0	0	29	30	360	360	
B53	3/31/08	65	HD	010									78.7	44.9	A	0	0	26	27	360	360	
B54 *	4/1/08	33	HD	011	78.8	48.3	0	0	30	32	360	360	77.8	47.3	E	0	0	30	30	360	360	
B54 *	4/1/08	12	HD	011	40.4	19.3	999	999	0	0	0	0	41.1	20.0	E	999	999	0	0	0	0	
B54 *	4/1/08	65	HD	011									52.0	17.5		999	999	0	0	0	0	
B55	4/2/08	33	HD	012	77.5	47.4	0	0	28	29	360	150	79.4	49.3	A	0	0	30	31	360	108	
B55	4/2/08	12	HD	012	64.2	42.5	999	0	2	0	139	139	81.0	59.3	A	0	0	44	45	360	360	
B55	4/2/08	65	HD	012									83.1	49.1	A	0	0	22	22	360	360	
B56 *	4/3/08	33	HD	013	79.8	49.7	0	0	31	31	360	325	79.8	49.7	E	0	0	31	32	360	360	
B56 *	4/3/08	12	HD	013	56.6	35.5	0	0	14	14	360	340	57.4	36.3		0	0	14	15	360	360	
B56 *	4/3/08	65	HD	013									57.6	23.4	A	0	0	1	1	56	56	
B57	4/4/08	33	G1	035	73.8	43.4	0	0	25	26	316	316	73.8	43.4	E	0	0	23	24	360	316	
B57	4/4/08	12	G1	035	68.0	46.3	0	0	29	29	360	360	69.1	47.4	E	0	0	26	27	360	325	
B57	4/4/08	65	G1	035									68.1	33.8	A	0	0	13	14	141	141	
B58	4/22/08	33	G1	034	79.9	49.5	0	0	31	32	360	360	81.0	50.6	E	0	0	31	32	360	72	
B58	4/22/08	12	G1	034	53.1	31.9	555	555	0	0	135	135	56.0	34.8	E	0	555	10	0	326	0	
B58	4/22/08	65	G1	034									67.6	33.4	B	0	0	13	14	335	252	

* denotes test site "outside the box"

Table A6-2 (cont) Summary of 15' AGL raw outdoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
B59 *	4/23/08	33	HD	014	78.4	48.0	0	0	30	29	360	360	80.2	49.8	E	0	0	31	32	360	227
B59 *	4/23/08	12	HD	014	59.7	38.4	0	0	17	17	360	360	59.8	38.5	E	0	0	15	14	360	360
B59 *	4/23/08	65	HD	014									62.7	28.4	A	0	0	4	4	93	21
B60	4/28/08	33	G1	080	74.7	43.7	0	0	26	26	360	360	78.1	47.1	D	0	0	28	29	360	235
B60	4/28/08	12	G1	080	63.6	42.0	0	0	23	24	225	210	73.6	52.0	D	0	0	34	35	360	360
B60	4/28/08	65	G1	080									69.5	35.8	D	0	0	16	16	360	360
B61 *	4/29/08	33	HD	015	64.2	33.3	0	0	12	12	325	225	61.5	30.6	A	0	0	10	10	85	30
B61 *	4/29/08	12	HD	015	46.3	24.5	10	10	2	2	130	115	47.0	25.2	D	0	999	2	0	65	0
B61 *	4/29/08	65	HD	015									56.8	21.8	A	999	999	0	0	0	0
B62 *	4/30/08	33	HD	016	59.4	28.8	0	0	8	8	200	220	59.2	28.6	E	0	0	8	7	80	75
B62 *	4/30/08	12	HD	016	43.6	22.0	0	555	3	1	50	40	45.2	23.6	E	999	999	0	0	0	0
B62 *	4/30/08	65	HD	016									51.9	17.3		999	999	0	0	0	0
B63	5/1/08	33	HD	017	69.2	37.8	0	0	20	20	360	360	70.2	38.8	E	0	0	20	20	360	360
B63	5/1/08	12	HD	017	66.6	44.7	0	0	28	28	330	360	66.8	44.9	E	0	0	27	27	360	360
B63	5/1/08	65	HD	017									64.3	30.0	A	0	0	10	10	90	60
B64	5/2/08	33	HD	018	48.6	18.0	999	999	0	0	0	0	70.5	39.9	C	0	0	21	21	360	360
B64	5/2/08	12	HD	018	43.4	21.6	999	999	0	0	0	0	55.1	33.3	C	0	0	15	15	295	230
B64	5/2/08	65	HD	018									66.3	31.6	C	0	555	9	0	220	60
B65	5/5/08	33	HD	019	70.6	39.9	0	0	19	20	360	360	77.4	46.7	A	0	0	25	26	360	326
B65	5/5/08	12	HD	019	49.3	28.1	0	0	5	4	202	132	65.9	44.7	A	0	0	25	26	360	360
B65	5/5/08	65	HD	019									76.1	41.6	A	0	0	22	23	360	360
B66	5/6/08	33	HD	020	64.0	33.3	0	3	8	8	264	119	83.6	52.9	A	0	0	34	35.	360	203
B66	5/6/08	12	HD	020	57.7	36.4	0	0	16	16	360	360	74.5	53.2	A	0	0	35	36	360	360
B66	5/6/08	65	HD	020									85.6	51.0	A	0	0	31	32	360	360
B67	5/7/08	33	HD	021	78.9	48.0	0	0	30	31	360	360	81.0	50.1	E	0	0	22	23	360	360
B67	5/7/08	12	HD	021	58.5	36.9	0	0	18	19	360	360	64.7	43.1	A	0	0	16	17	360	360
B67	5/7/08	65	HD	021									75.3	40.5	A	0	0	21	22	360	360
B68	5/8/08	33	HD	022	72.9	42.1	0	0	25	26	360	360	73.7	42.9	E	0	0	25	26	360	159
B68	5/8/08	12	HD	022	68.0	46.5	0	0	28	29	288	288	68.2	46.7	E	0	0	28	29	360	210
B68	5/8/08	65	HD	022									62.7	28.1	A	0	999	2	0	82	0
B69	5/9/08	33	HD	023	75.3	44.5	0	0	22	23	360	322	85.7	54.9	A	0	0	37	37	360	360
B69	5/9/08	12	HD	023	49.4	27.8	0	0	9	9	229	229	74.9	53.3	A	0	0	36	36	360	360
B69	5/9/08	65	HD	023									80.3	45.7	A	0	0	26	27	314	314

* denotes test site "outside the box"

APPENDIX 7 OUTDOOR FIELD STRENGTH STATISTICAL PLOTS

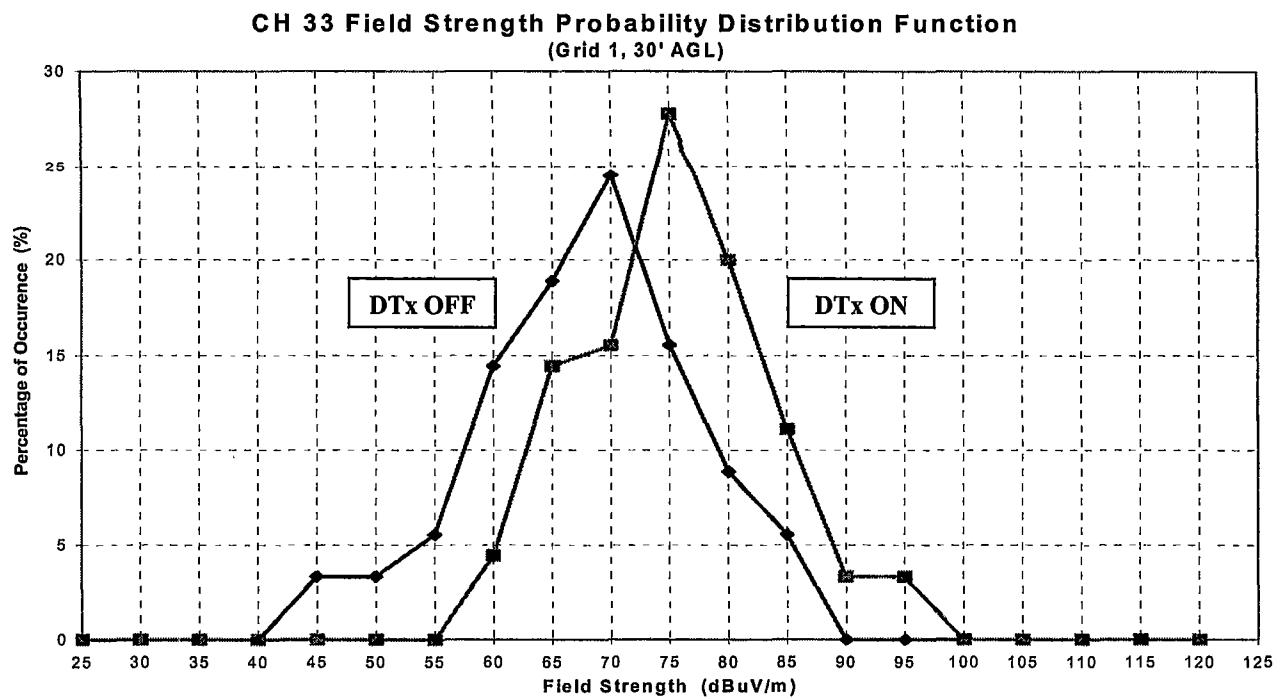


Figure A7-1a PDF of CH 33 outdoor field strength values at 30' AGL

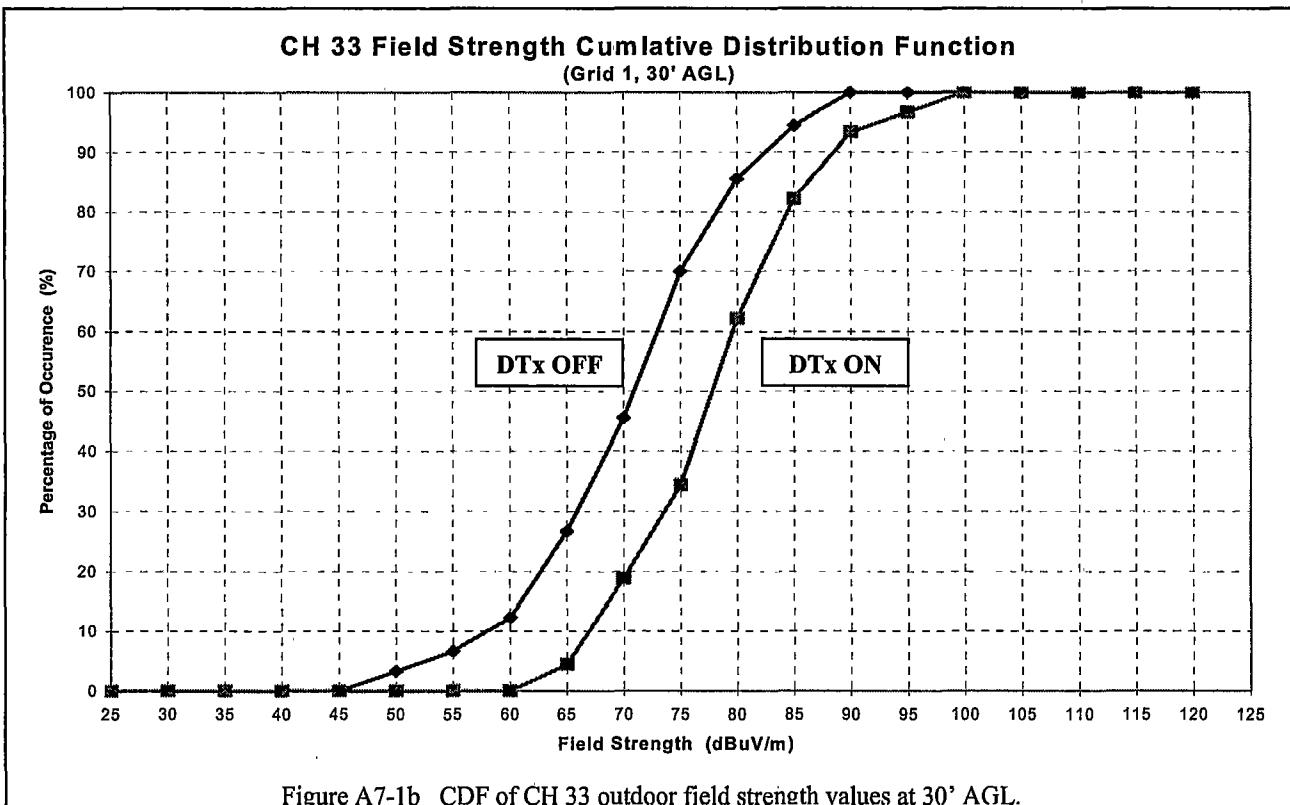


Figure A7-1b CDF of CH 33 outdoor field strength values at 30' AGL.

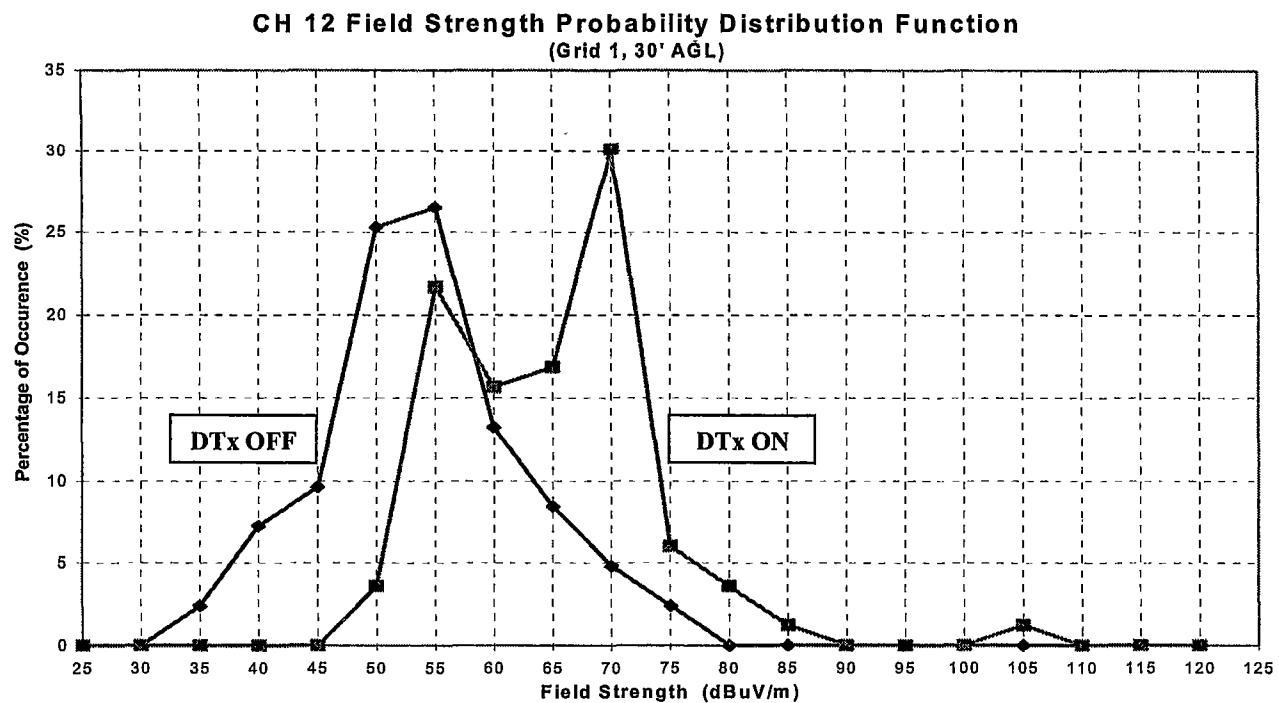


Figure A7-2a PDF of CH 12 outdoor field strength values at 30' AGL

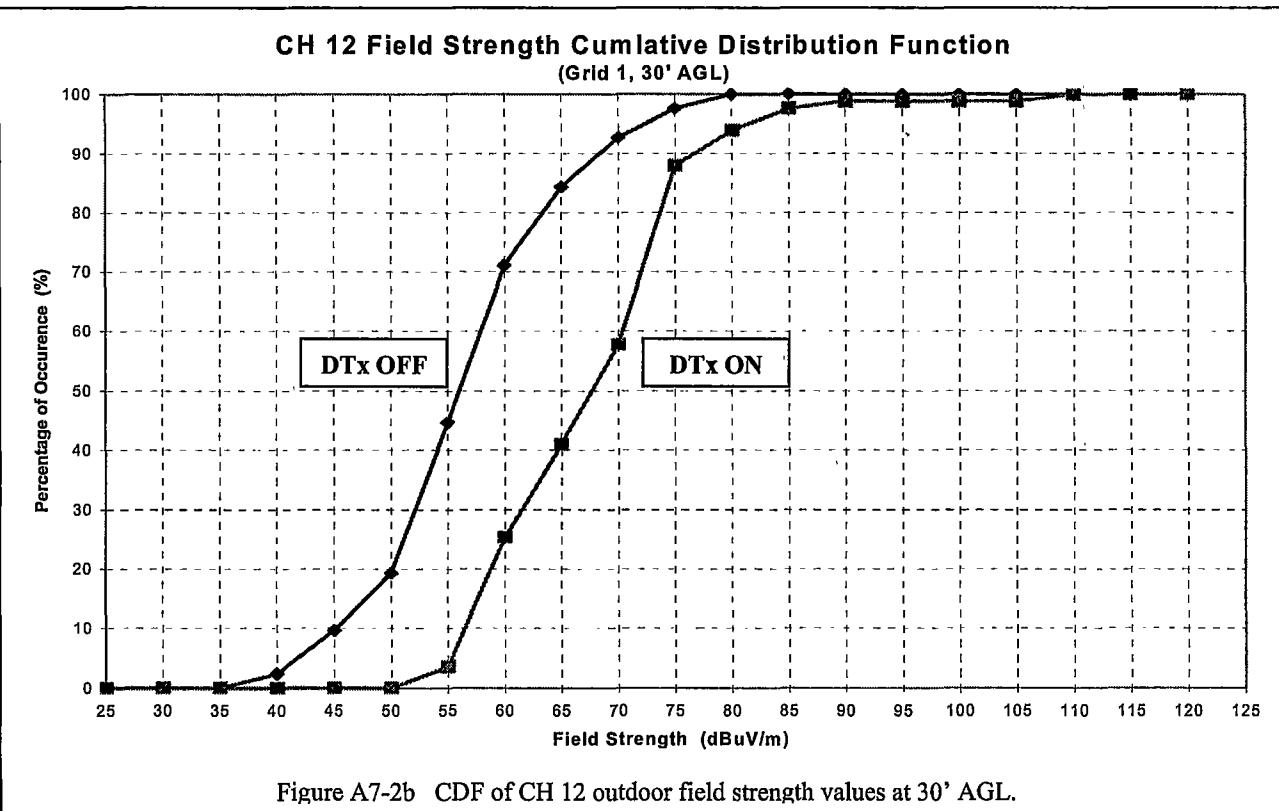


Figure A7-2b CDF of CH 12 outdoor field strength values at 30' AGL.

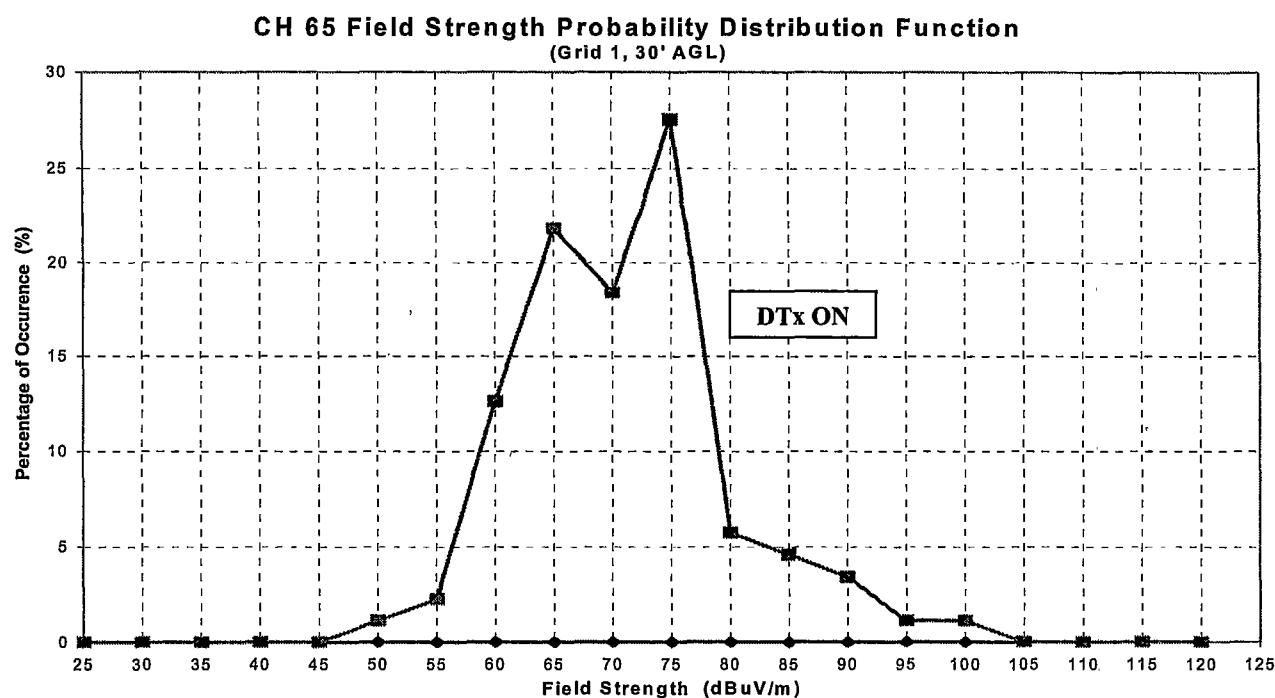


Figure A7-3a PDF of CH 65 outdoor field strength values at 30' AGL

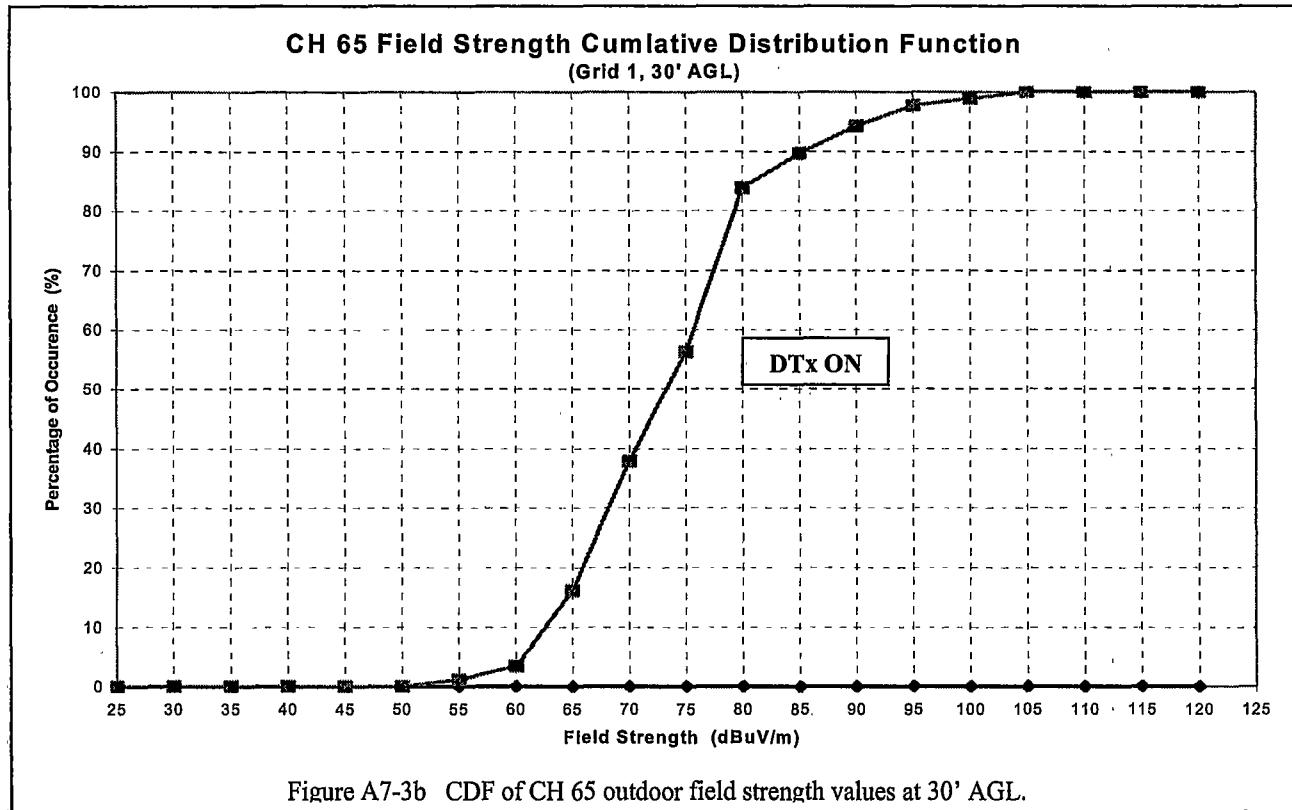


Figure A7-3b CDF of CH 65 outdoor field strength values at 30' AGL.

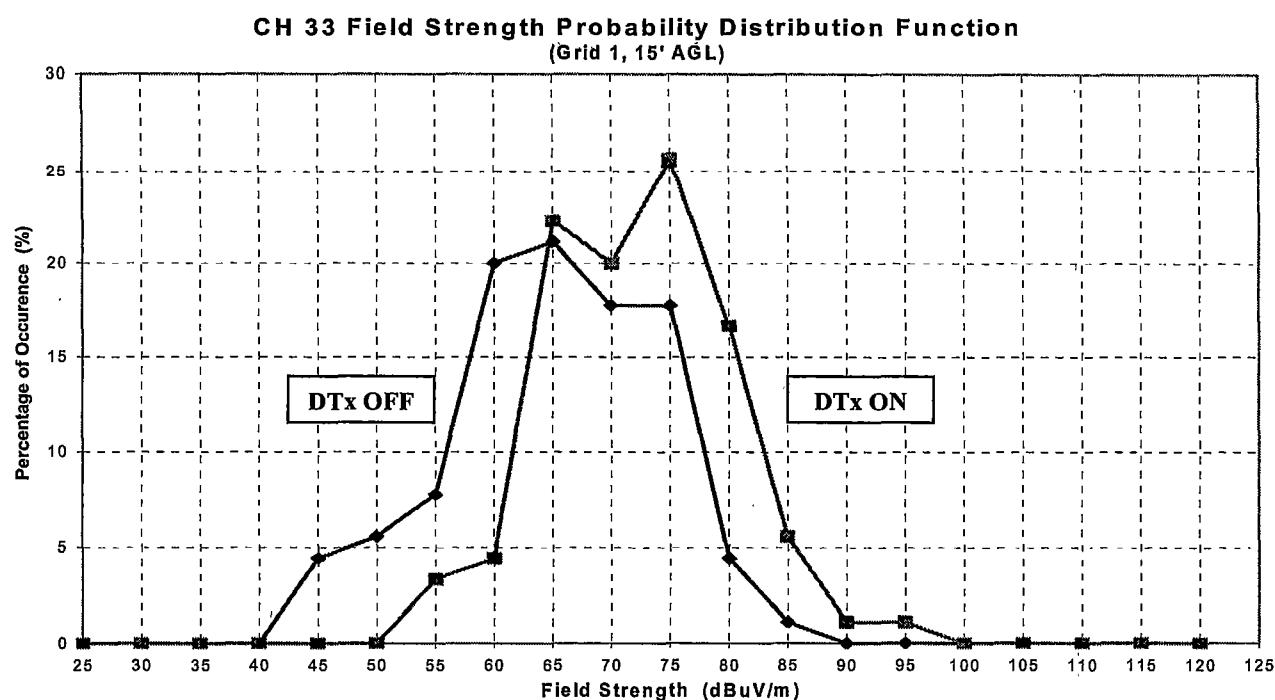


Figure A7-4a PDF of CH 33 outdoor field strength values at 150' AGL

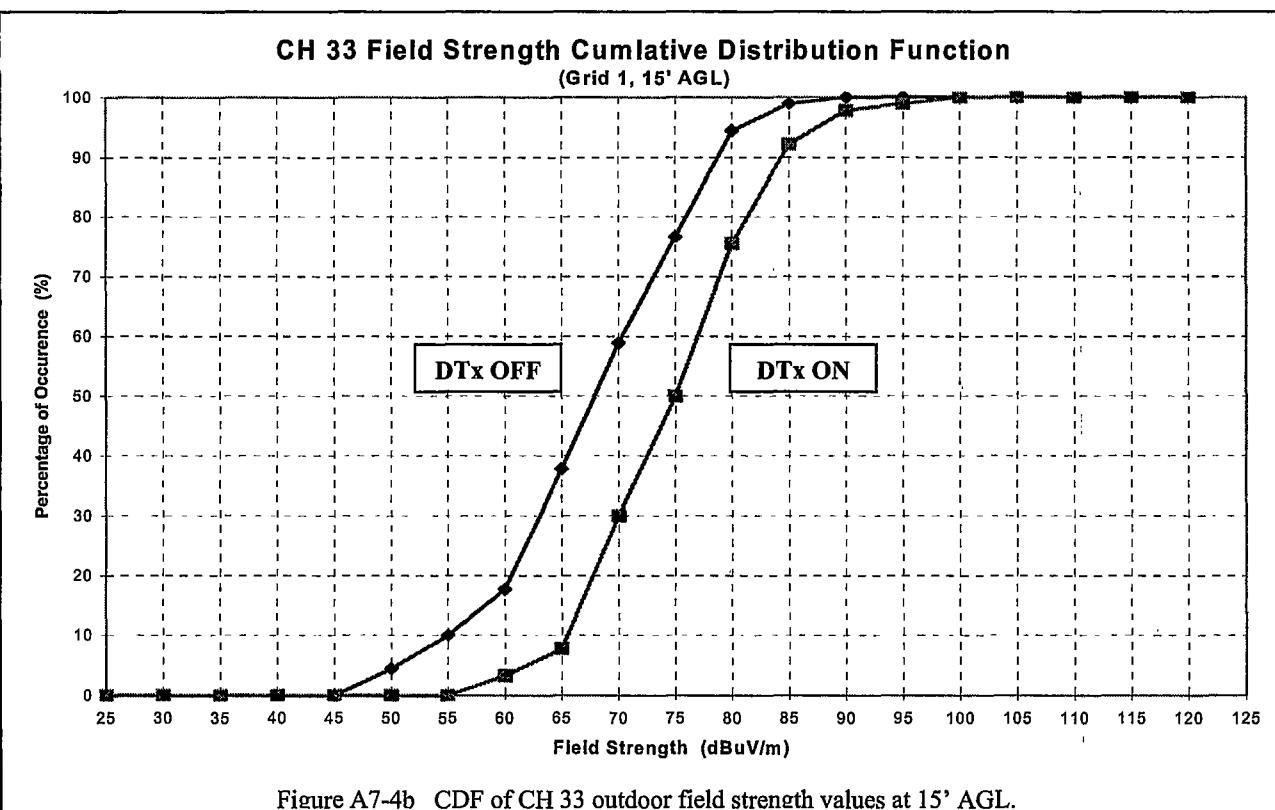


Figure A7-4b CDF of CH 33 outdoor field strength values at 15' AGL.

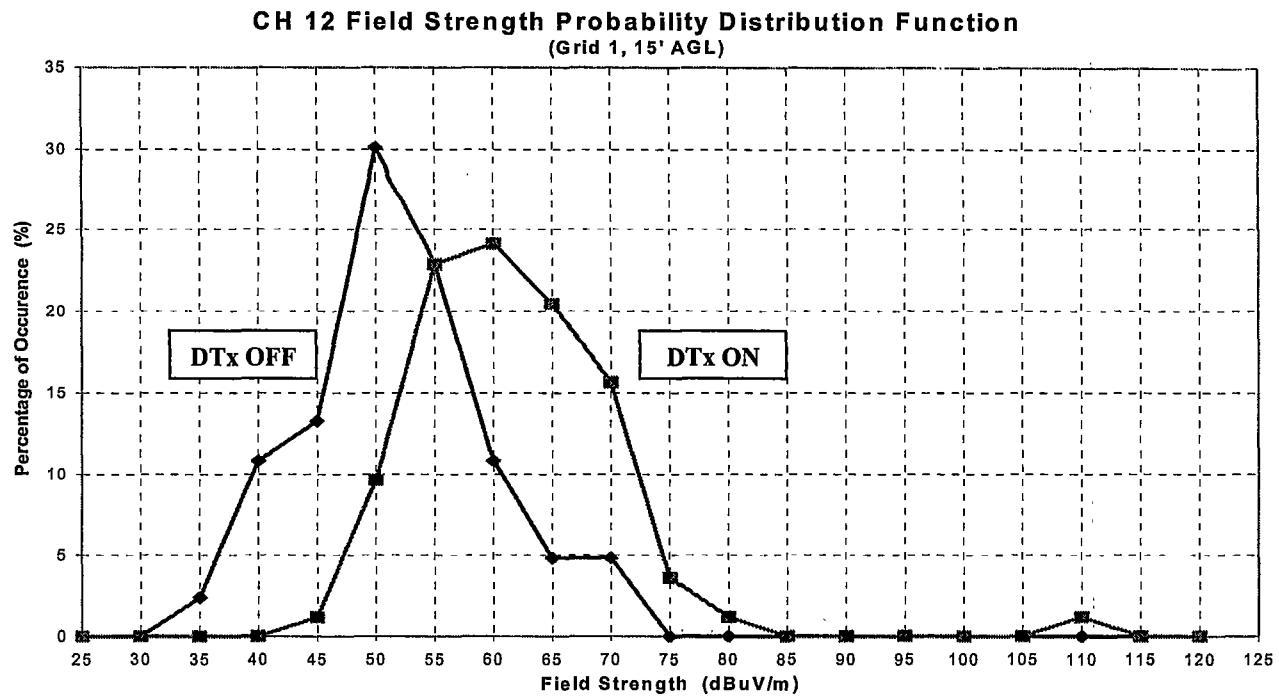


Figure A7-5a PDF of CH 12 outdoor field strength values at 15' AGL

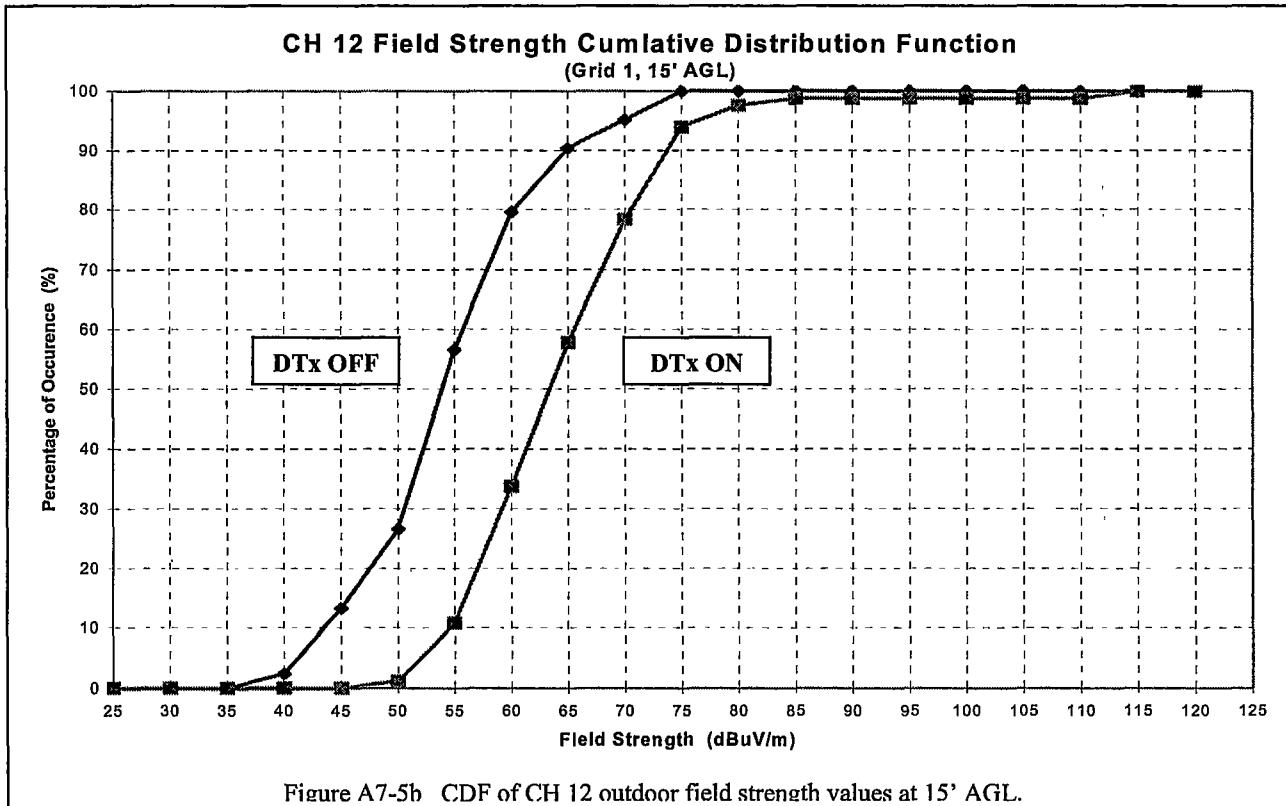


Figure A7-5b CDF of CH 12 outdoor field strength values at 15' AGL.

**CH 65 Field Strength Probability Distribution Function
(Grid 1, 15' AGL)**

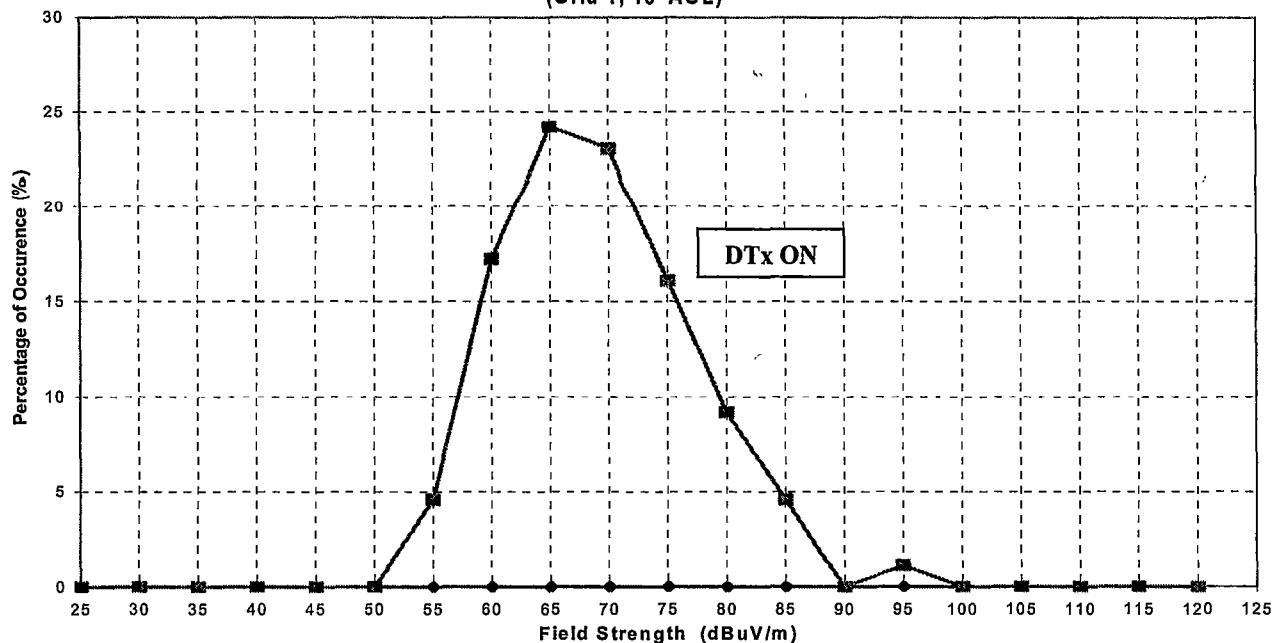


Figure A7-6a PDF of CH 65 outdoor field strength values at 15' AGL

**CH 65 Field Strength Cumulative Distribution Function
(Grid 1, 15' AGL)**

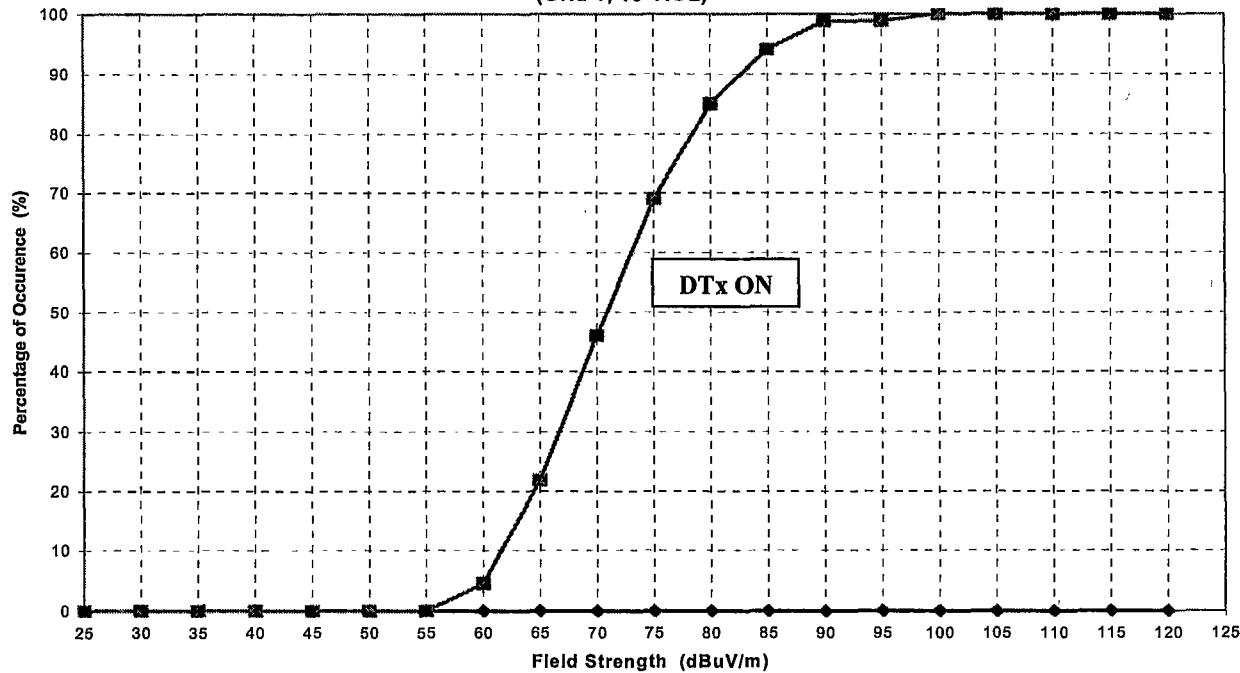


Figure A7-6b CDF of CH 65 outdoor field strength values at 15' AGL.

APPENDIX 8 INDOOR RAW DATA SUMMARY TABLES**Table A8-1** Summary of *primary antenna* raw indoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
IN-1 *	3/18/08	33	HI	0001	70.5	39.6	0	0	17	19	360	360	82.0	51.1	A	0	0	30	30	360	360
IN-1 *	3/18/08	12	HI	0001	53.3	32.3	555	555	0	0	0	0	60.4	39.4	A	0	0	18	19	85	40
IN-1 *	3/18/08	65	HI	0001									79.6	46.6	A	0	0	28	29	360	360
IN-2 *	3/19/08	33	HI	0002	89.9	54.4	0	0	35	35	360	360	87.4	51.9	E	0	0	24	26	360	360
IN-2 *	3/19/08	12	HI	0002	57.9	32.4	999	999	0	0	0	0	62.2	36.7	E	999	999	0	0	0	0
IN-2 *	3/19/08	65	HI	0002									55.1	17.3		999	999	0	0	0	0
IN-3 *	3/20/08	33	HI	003	65.9	35.3	555	555	0	0	0	0	66.2	35.6	E	555	555	0	0	0	0
IN-3 *	3/20/08	12	HI	003	44.4	23.4	999	999	0	0	0	0	47.1	26.1		999	999	0	0	0	0
IN-3 *	3/20/08	65	HI	003									50.8	17.9	A	999	999	0	0	0	0
IN-4 *	3/21/08	33	HI	004	70.9	40.1	0	0	18	18	240	190	72.4	41.6	E	0	0	21	21	305	305
IN-4 *	3/21/08	12	HI	004	70.3	49.5	0	0	32	32	290	290	69.2	48.4	E	0	0	31	31	245	245
IN-4 *	3/21/08	65	HI	004									51.0	18.4	A	999	999	0	0	0	0
IN-5 *	3/24/08	33	HI	005	67.6	36.9	0	0	18	19	320	320	68.2	37.5	E	0	0	16	16	200	200
IN-5 *	3/24/08	12	HI	005	47.5	26.6	999	999	0	0	0	0	47.1	26.2	E	999	999	0	0	0	0
IN-5 *	3/24/08	65	HI	005									56.5	23.7	D	555	555	0	0	0	0
IN-6	3/25/08	33	HI	006	72.0	41.2	0	0	19	19	360	360	70.4	39.6	A	0	0	17	15	360	360
IN-6	3/25/08	12	HI	006	60.5	39.6	0	555	14	0	0	0	60.1	39.2	E	555	555	0	0	0	0
IN-6	3/25/08	65	HI	006									73.2	40.9	A	0	0	19	18	360	360
IN-7 *	3/26/08	33	HI	007	66.5	35.5	0	0	15	15	170	170	66.5	35.5	E	0	0	14	14	120	120
IN-7 *	3/26/08	12	HI	007	47.5	26.6	999	999	0	0	0	0	47.8	26.9	A	999	999	0	0	0	0
IN-7 *	3/26/08	65	HI	007									53.3	20.2	D	999	999	0	0	0	0
IN-8 *	3/27/08	33	HI	008	77.3	46.4	0	0	29	29	360	360	76.4	45.5	E	0	0	28	28	360	360
IN-8 *	3/27/08	12	HI	008	49.2	28.4	999	999	0	0	0	0	48.3	27.5	E	999	999	0	0	0	0
IN-8 *	3/27/08	65	HI	008									52.4	19.6	A	999	999	0	0	0	0
IN-9 *	3/28/08	33	HI	009	77.8	46.8	555	999	0	0	0	0	79.4	48.4	E	0	999	19	0	0	0
IN-9 *	3/28/08	12	HI	009	52.2	31.4	999	999	0	0	0	0	52.5	31.7	E	999	999	0	0	0	0
IN-9 *	3/28/08	65	HI	009									56.8	24.2	A	999	999	0	0	0	0
IN-10	3/31/08	33	HI	010	83.1	52.7	0	0	33	34	360	360	86.1	55.7	E	0	0	34	34	360	360
IN-10	3/31/08	12	HI	010	63.6	42.4	0	0	22	22	360	360	64.4	43.2	E	0	0	19	17	360	360
IN-10	3/31/08	65	HI	010									75.0	42.3	A	0	0	20	19	360	360
IN-11 *	4/1/08	33	HI	011	69.5	38.5	0	0	19	19	360	360	69.8	38.8	E	0	0	21	21	360	360
IN-11 *	4/1/08	12	HI	011	42.1	21.1	999	999	0	0	0	0	42.5	21.5		999	999	0	0	0	0
IN-11 *	4/1/08	65	HI	011									49.3	16.6		999	999	0	0	0	0
IN-12	4/2/08	33	HI	012	65.9	35.1	555	555	0	0	0	0	86.8	56.0	A	0	0	36	36	360	360
IN-12	4/2/08	12	HI	012	48.3	27.5	999	999	0	0	0	0	86.0	65.2	A	0	0	48	48	360	360
IN-12	4/2/08	65	HI	012									82.6	49.9	A	0	0	39	39	360	360
IN-13 *	4/3/08	33	HI	013	77.1	46.2	0	0	26	26	360	340	79.3	48.4	E	0	0	29	29	360	320
IN-13 *	4/3/08	12	HI	013	51.5	30.6	999	999	0	0	0	0	52.6	31.7	E	555	555	0	0	0	0
IN-13 *	4/3/08	65	HI	013									54.9	22.2	A	555	555	0	0	0	0
IN-14 *	4/23/08	33	HI	014	78.5	47.4	0	0	29	29	360	360	79.0	47.9	E	0	0	26	20	360	360
IN-14 *	4/23/08	12	HI	014	60.5	39.2	999	999	0	0	0	0	61.0	39.7	E	555	999	0	0	0	0
IN-14 *	4/23/08	65	HI	014									73.6	40.9	A	0	0	19	19	360	360

* denotes test site "outside the box"

Table A8-1 (cont) Summary of *primary antenna* raw indoor data

Test Site Name & Date					DTx OFF							DTx ON									
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
IN-15 *	4/29/08	33	HI	015	51.4	20.6	999	999	0	0	0	0	52.5	21.7	E	999	999	0	0	0	0
IN-15 *	4/29/08	12	HI	015	50.2	29.0	999	999	0	0	0	0	47.8	26.6		999	999	0	0	0	0
IN-15 *	4/29/08	65	HI	015									52.6	20.0		999	999	0	0	0	0
IN-16 *	4/30/08	33	HI	016	57.8	26.8	999	999	0	0	0	0	59.2	28.2	E	999	999	0	0	0	0
IN-16 *	4/30/08	12	HI	016	44.6	24.0	999	999	0	0	0	0	45.7	25.1		999	999	0	0	0	0
IN-16 *	4/30/08	65	HI	016									50.1	17.2		999	999	0	0	0	0
IN-17	5/1/08	33	HI	017	59.2	28.3	0	555	7	0	95	0	70.3	39.4	A	0	0	21	21	360	360
IN-17	5/1/08	12	HI	017	45.7	25.0	999	999	0	0	0	0	56.3	35.6	A	999	999	0	0	0	0
IN-17	5/1/08	65	HI	017									73.9	40.9	A	0	0	24	24	360	360
IN-18	5/2/08	33	HI	018	50.4	19.4	999	999	0	0	0	0	65.4	34.4	C	0	0	12	12	360	90
IN-18	5/2/08	12	HI	018	44.6	23.8	999	999	0	0	0	0	57.2	36.4	C	555	555	0	0	0	0
IN-18	5/2/08	65	HI	018									63.2	30.1	C	0	0	10	10	360	180
IN-19	5/5/08	33	HI	019	60.9	30.0	555	555	0	0	0	0	69.2	38.3	A	0	0	13	13	360	360
IN-19	5/5/08	12	HI	019	49.0	28.0	999	999	0	0	0	0	63.2	42.2	A	0	0	23	23	200	200
IN-19	5/5/08	65	HI	019									64.8	32.0	A	0	0	13	14	210	210
IN-20	5/6/08	33	HI	020	69.3	38.1	0	0	20	20	305	305	69.5	38.3	E	0	555	14	0	0	0
IN-20	5/6/08	12	HI	020	50.4	29.4	999	999	0	0	0	0	55.4	34.4	A	999	999	0	0	0	0
IN-20	5/6/08	65	HI	020									62.1	29.7	A	0	0	5	5	0	0
IN-21	5/7/08	33	HI	021	67.7	36.1	0	0	20	20	360	360	71.5	39.9	E	0	0	19	19	360	360
IN-21	5/7/08	12	HI	021	51.1	30.0	999	999	0	0	0	0	55.5	34.4	A	999	999	0	0	0	0
IN-21	5/7/08	65	HI	021									62.9	29.5	A	0	0	11	11	145	145
IN-22	5/8/08	33	HI	022	67.1	35.9	0	0	14	14	140	140	70.4	39.2	E	0	0	16	16	360	360
IN-22	5/8/08	12	HI	022	53.8	32.8	999	999	0	0	0	0	58.8	37.8	A	999	999	0	0	0	0
IN-22	5/8/08	65	HI	022									58.4	25.6	A	555	555			0	0
IN-23	5/9/08	33	HI	023	66.1	34.8	0	0	12	12	175	175	67.4	36.1	E	555	999	0	0	0	0
IN-23	5/9/08	12	HI	023	44.4	23.2	999	999	0	0	0	0	46.9	25.7		999	999	0	0	0	0
IN-23	5/9/08	65	HI	023									63.8	31.3	A	0	0	8	8	360	360

* denotes test site “*outside* the box”

Table A8-2 Summary of *secondary antenna* raw indoor data

Test Site Name & Date					DTx OFF								DTx ON								
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
IN-1 *	3/18/08	33	HI	001	63.7	36.8	0	0	18	20	0	360	74.7	47.8	A	0	0	28	28	360	360
IN-1 *	3/18/08	12	HI	001	51.8	33.0	555	999	0	0	2	0	61.5	42.7	A	555	999	0	0	0	0
IN-1 *	3/18/08	65	HI	001									76.6	49.1	A	0	0	31	33	360	360
IN-2 *	3/19/08	33	HI	002	89.5	58.0	0	0	35	36	0	360	88.8	57.3	E	0	0	32	36	360	360
IN-2 *	3/19/08	12	HI	002	60.3	37.0	999	999	0	0	2	0	59.4	36.1	E	999	999	0	0	0	0
IN-2 *	3/19/08	65	HI	002									51.3	19.0		999	999	0	0	0	0
IN-3 *	3/20/08	33	HI	003	64.9	38.3	555	555	0	0	2	0	62.7	36.1	E	555	555	0	0	0	0
IN-3 *	3/20/08	12	HI	003	44.1	25.3	999	999	0	0	2	0	41.5	22.7		999	999	0	0	0	0
IN-3 *	3/20/08	65	HI	003									45.6	18.2	A	999	999	0	0	0	0
IN-4 *	3/21/08	33	HI	004	65.9	39.1	0	0	16	16	0	225	65.7	38.9	E	0	0	16	14	360	360
IN-4 *	3/21/08	12	HI	004	66.1	47.5	0	0	22	20	0	85	65.9	47.3	E	0	0	19	17	50	50
IN-4 *	3/21/08	65	HI	004									46.3	19.2	A	999	999	0	0	0	0
IN-5 *	3/24/08	33	HI	005	60.3	33.6	0	0	15	15	0	210	62.5	35.8	E	999	999	0	0	0	0
IN-5 *	3/24/08	12	HI	005	42.9	24.2	999	999	0	0	2	0	43.7	25.0	A	999	999	0	0	0	0
IN-5 *	3/24/08	65	HI	005									53.7	26.4	D	0	0	3	3	45	45
IN-6	3/25/08	33	HI	006	64.6	37.8	0	0	16	11	0	360	66.7	39.9	A	0	0	17	15	360	360
IN-6	3/25/08	12	HI	006	58.0	39.3	0	0	15	14	0	45	58.6	39.9	E	0	0	17	13	40	0
IN-6	3/25/08	65	HI	006									68.1	41.3	A	0	0	19	12	360	360
IN-7 *	3/26/08	33	HI	007	56.1	29.1	999	999	0	0	2	0	59.1	32.1	E	999	999	0	0	0	0
IN-7 *	3/26/08	12	HI	007	44.6	25.9	999	999	0	0	2	0	42.7	24.0	D	999	999	0	0	0	0
IN-7 *	3/26/08	65	HI	007									49.5	21.9	A	999	999	0	0	0	0
IN-8 *	3/27/08	33	HI	008	73.8	46.9	0	0	29	29	0	360	67.4	40.5	E	0	0	20	20	360	360
IN-8 *	3/27/08	12	HI	008	53.1	34.5	555	999	0	0	2	0	52.5	33.9	E	999	999	0	0	0	0
IN-8 *	3/27/08	65	HI	008									45.5	18.2	A	999	999	0	0	0	0
IN-9 *	3/28/08	33	HI	009	76.7	49.7	555	999	0	0	2	0	76.8	49.8	E	555	999	0	0	0	0
IN-9 *	3/28/08	12	HI	009	48.2	29.6	999	999	0	0	2	0	48.5	29.9	E	999	999	0	0	0	0
IN-9 *	3/28/08	65	HI	009									53.8	26.7	A	555	999	0	0	0	0
IN-10	3/31/08	33	HI	010	77.3	50.9	0	0	31	32	0	360	81.6	55.2	A	0	0	30	30	360	360
IN-10	3/31/08	12	HI	010	62.9	43.9	0	0	24	24	0	255	62.9	43.9	A	555	555	0	0	0	0
IN-10	3/31/08	65	HI	010									74.2	47.0	A	0	0	25	29	360	360
IN-11 *	4/1/08	33	HI	011	66.2	39.2	0	0	20	20	0	360	66.5	39.5	E	0	0	18	18	360	360
IN-11 *	4/1/08	12	HI	011	38.9	20.1	999	999	0	0	5	0	42.4	23.6		999	999	0	0	0	0
IN-11 *	4/1/08	65	HI	011									43.6	16.4		999	999	0	0	0	0
IN-12	4/2/08	33	HI	012	60.4	33.6	555	555	0	0	2	0	83.9	57.1	A	0	0	37	37	360	360
IN-12	4/2/08	12	HI	012	47.4	28.8	999	999	0	0	2	0	81.3	62.7	A	0	0	48	48	360	360
IN-12	4/2/08	65	HI	012									76.2	49.0	A	0	0	28	28	360	360
IN-13 *	4/3/08	33	HI	013	75.1	48.2	0	0	25	26	0	360	73.9	47.0	E	0	0	24	24	360	310
IN-13 *	4/3/08	12	HI	013	51.6	32.9	999	999	0	0	2	0	51.6	32.9	E	999	999	0	0	0	0
IN-13 *	4/3/08	65	HI	013									52.9	25.7	A	555	555	0	0	0	0
IN-14 *	4/23/08	33	HI	014	73.0	45.9	0	555	24	0	2	360	74.5	47.4	E	0	0	24	24	360	180
IN-14 *	4/23/08	12	HI	014	60.5	41.4	0	0	22	22	0	70	60.7	41.6	E	0	0	19	19	90	90
IN-14 *	4/23/08	65	HI	014									69.0	41.8	A	0	0	20	20	360	360

* denotes test site "outside the box"

Table A8-2 (cont) Summary of *secondary antenna* raw indoor data

Test Site Name & Date					DTx OFF								DTx ON								
Test #	Test Date	CH #	Site Type	Site #	Field Strength (dBuV/m)	SNR Value (dB)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)	Field Strength (dBuV/m)	SNR Value (dB)	Largest Signal (*)	Rx #1 Errors	Rx #2 Errors	Rx #1 Margin (dB)	Rx #2 Margin (dB)	Rx #1 ROR (deg)	Rx #2 ROR (deg)
IN-15 *	4/29/08	33	HI	015	51.7	24.9	999	999	0	0	2	0	53.7	26.9		999	999	0	0	0	0
IN-15 *	4/29/08	12	HI	015	45.4	26.4	999	999	0	0	2	0	45.2	26.2		999	999	0	0	0	0
IN-15 *	4/29/08	65	HI	015									46.2	19.1		999	999	0	0	0	0
IN-16 *	4/30/08	33	HI	016	56.4	29.4	999	999	0	0	2	0	54.1	27.1	E	999	999	0	0	0	0
IN-16 *	4/30/08	12	HI	016	41.8	23.4	999	999	0	0	2	0	41.9	23.5		999	999	0	0	0	0
IN-16 *	4/30/08	65	HI	016									44.5	17.1		999	999	0	0	0	0
IN-17	5/1/08	33	HI	017	57.5	30.6	0	999	3	0	2	65	67.8	40.9	A	0	0	19	16	360	360
IN-17	5/1/08	12	HI	017	44.4	25.9	999	999	0	0	2	0	50.7	32.2	A	999	999	0	0	0	0
IN-17	5/1/08	65	HI	017									69.9	42.4	A	0	0	25	25	360	360
IN-18	5/2/08	33	HI	018	47.7	20.7	999	999	0	0	5	0	64.4	37.4	C	0	0	19	21	180	180
IN-18	5/2/08	12	HI	018	44.2	25.6	999	999	0	0	2	0	54.3	35.7	C	999	999	0	0	0	0
IN-18	5/2/08	65	HI	018									60.1	32.5	C	0	0	12	12	270	270
IN-19	5/5/08	33	HI	019	60.0	33.1	555	555	0	0	2	0	71.2	44.3	A	0	0	26	26	360	360
IN-19	5/5/08	12	HI	019	46.5	27.7	999	999	0	0	2	0	62.2	43.4	A	0	0	21	20	180	180
IN-19	5/5/08	65	HI	019									67.7	40.4	A	0	0	24	24	360	360
IN-20	5/6/08	33	HI	020	67.2	40.0	0	0	22	22	0	145	67.1	39.9	E	0	0	21	21	40	40
IN-20	5/6/08	12	HI	020	49.8	31.0	999	999	0	0	2	0	53.0	34.2	A	999	999	0	0	0	0
IN-20	5/6/08	65	HI	020									57.0	30.1	A	555	555	0	0	150	150
IN-21	5/7/08	33	HI	021	61.5	33.9	0	0	13	13	0	360	65.6	38.0	E	555	555	0	0	0	0
IN-21	5/7/08	12	HI	021	48.7	29.8	999	999	0	0	2	0	51.9	33.0	A	999	999	0	0	0	0
IN-21	5/7/08	65	HI	021									60.7	32.8	A	0	0	14	14	290	290
IN-22	5/8/08	33	HI	022	64.0	36.8	0	0	16	16	0	155	65.5	38.3	E	0	0	17	17	65	65
IN-22	5/8/08	12	HI	022	46.5	27.7	999	999	0	0	2	0	59.7	40.9	A	555	555	0	0	0	0
IN-22	5/8/08	65	HI	022									53.1	25.8	A	555	555	0	0	0	0
IN-23	5/9/08	33	HI	023	60.4	33.1	555	555	0	0	2	0	65.9	38.6	A	555	555	0	0	0	0
IN-23	5/9/08	12	HI	023	42.1	23.1	999	999	0	0	2	0	46.8	27.8		999	999	0	0	0	0
IN-23	5/9/08	65	HI	023									63.1	36.1	A	0	0	14	14	145	145

* denotes test site “*outside* the box”

DOCKET NO. *05-312*

DOCUMENT OFF-LINE

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